



County Palatine of Chester

REPORT

for the Year

1957

BY THE

**County
Medical Officer of Health**

**Presented to the
County Health Committee**

12th December, 1958

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REPORT

OF THE

County Medical Officer of Health

For the Year ended December 31st, 1957

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Introduction

*To the Chairman and Members
of the County Health Committee.*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report on the health of the administrative county of Cheshire for the year 1957.

At mid-1957 the county's population was 861,800, an increase of 11,400 over the previous year. The birth rate was higher and both the death rate and the still-birth rate lower than in the previous year.

It is always a pleasure to draw attention to some outstandingly satisfactory items in the year's vital statistics, and 1957 showed the infantile mortality rate to be 18.8 per 1,000 live ~~and still~~ births, the first time that this figure had ever been below 20 and a diminution of 3.7 from the previous year which was then the lowest figure on record for the county. The death rate of babies under one month was also the lowest ever attained. Having regard to the progressive improvements attained year by year in these two very important matters it is always disquieting to note that the still-birth rate, although substantially lower than its level of 13 years ago and previously, has remained approximately the same since 1948.

By the end of 1957 approximately 20% of the children born between 1943 and 1957, and thus eligible under the scheme, had been vaccinated against poliomyelitis. At the time of writing this report it is estimated that approximately 50% of those children eligible have received two injections, 9,300 have received one injection only, and 17,500 are registered and awaiting their turn, a very satisfactory state of affairs for which credit is due to the Divisional Medical Officers and those family doctors who have co-operated in making this scheme a success. The proportion of those parents who insist on British manufactured vaccine and are prepared to wait for it is lessening.

In the spring of the current year an outbreak of smallpox occurred in Bebington, which was dealt with strenuously and efficiently by the Borough Medical Officer of Health. The advantage of the system whereby the Medical Officer of Health for a County District is also Divisional Medical Officer for the County and a member of a large team of health workers was shown by his being able immediately to call upon Medical Officers and Health Visitors from the two adjoining divisions in his successful efforts to prevent the spread of infection.

Both the number of notifications of tuberculosis and the number of deaths from the pulmonary form of the disease were lower than ever before. This experience is common all over the country and is the result of early diagnosis, new and more efficient means of treatment, and, so far as preventive measures are concerned, contact tracing,

improved housing, B.C.G. vaccinations and the efforts of doctors and Health Visitors to see that patients are capable of preventing the spread of their infection to others. As was noted in the previous annual report the County Council's rehabilitation centre at Wrenbury has suffered a dramatic decrease in the number of trainees admitted. The feasibility of making use of Wrenbury within the field of mental health, whilst retaining the tuberculous colonists, to many of whom Wrenbury is home, has been closely examined, and it is considered that, with support from the Ministries of Health and of Labour, such a project should be both useful and practicable.

Considerably more visits to Cheshire were paid by the Regional Hospitals Boards' mass miniature Radiography teams than in previous years; the results of these X-ray examinations are given in tabular form in section V of this report.

Special reference has been made in previous years' Annual Reports to the high proportion of male deaths amongst persons dying in later middle age, *i.e.* between the ages of 45 and 64. In 1957 the proportion was higher than in any previous year and the ratio of deaths of males to females between these ages was as high as 169 to 100. The largest single cause of death amongst males in this age group was coronary thrombosis which is recognised as a public health problem of the greatest magnitude. The decision of the County Health Committee to investigate this problem has been implemented by the secondment (part-time) of four of the staff to visit the homes of the surviving relatives of persons who have died from coronary thrombosis between 45 and 65 years of age, and obtain answers to a questionnaire compiled after consultation with officers of the Ministry of Health and the Medical Research Council. The questions deal with many facets of living and working conditions, diet, leisure habits and activities. For each enquiry regarding a person who has died, a precisely similar one is carried out from a person of the same age group whose name has been chosen at random and by comparison between the particulars obtained from these two sets of people, it is hoped that some light will be thrown upon those aspects of daily life which predispose to sudden death from coronary disease. It is most gratifying to report that those persons who have been asked to help have been most co-operative. My thanks are particularly due to the County Treasurer and to the Clerk to the Cheshire Executive Council for their very valuable and indispensable help.

Deaths from cancer of the lung and bronchus are still mounting. This is another disease, commonest in late middle life, to which men are far more liable than women; during 1947 more than 7 times as many men died from this cause between 45 and 64 years of age as women. Health education towards the prevention and early recognition of lung cancer has been entrusted by the County Health Committee to the Manchester Committee on Cancer, so far as that part of Cheshire

which is within the area of the Manchester Regional Hospital Board is concerned. An exploratory meeting has been held regarding the setting up of a similar body for West Cheshire, based on Merseyside.

The Consultant Ante-Natal Clinics continued to be well attended; additional midwives clinics were commenced at Macclesfield and Marple. New "preparation classes" for expectant mothers at which physiotherapists attend to conduct "relaxation" exercises were set up at Crewe, Macclesfield, Marple, Nantwich and Winsford. Although the number of expectant mothers receiving dental care at County clinics was somewhat greater than in previous years, the proportion is still low and it is felt that more use could be made of this very useful service.

Although over a million articles were distributed through the Welfare Foods Service, only 30,000 less than in 1956, 16% fewer tins of National Dried Milk were sold, the deficiency being partially made up by orange juice sales. The majority of the selling centres, including virtually all those in the villages, are managed by voluntary helpers. Voluntary Committees of ladies again gave indispensable help at Child Welfare Centres, and I am glad to take this opportunity of thanking those ladies who regularly and willingly give their leisure time at the Child Welfare and Foods Distribution centres.

New Child Welfare Centres were set up at Bunbury, Christleton, Lacey Green (Wilmslow) and Leftwich (Northwich).

Handicapped infants and children under school age are now the special province of the Senior Assistant Medical Officer. The work of the "cerebral palsy" team has continued; each spastic child attending these clinics represents months and years of careful treatment, and it is particularly gratifying to report that seven spastic children have so far been able to attend a day school who would have been unfit to do so were it not for treatment at the county clinics. Help has been given to the three clinics for spastics organised by local voluntary committees under the National Spastics Society, and financial assistance is given in respect of spastic children who are also mentally defective and but for their physical handicap would be attending a County occupation centre. Special furniture for the use of Spastics is made at Wrenbury Hall Industries and made available in the homes of spastic children as part of the "after-care" scheme under S.28 of the National Health Service Act. In particular, a special fully adjustable chair for spastics has been evolved at Wrenbury from the specification prepared by the County "cerebral palsy" team which is in use in many homes.

In the field of mental health it is pleasing to note a slight reduction in the number of admissions to the mental hospitals in the County. The policy has been declared by the County Health Committee of providing at occupation centres accommodation for adults and children under the age of five. At the present time, the occupation centres

already in operation provide training for mentally defective children of school age. Through this provision supplemented by arrangements made with neighbouring County Boroughs, the only ineducable children who are suitable to attend a centre and do not have the opportunity to do so are those who live in localities so isolated that they cannot reasonably be transported. Whenever possible the informal procedure is now adopted when mental defectives are admitted to mental deficiency hospitals.

In pursuance of the policy of introducing radio control of the ambulance service and placing it under central control, a County Ambulance Officer has been appointed.

The experiment of appointing a supervisor of Domestic Helps in the North-Eastern portion of the County proved so successful that four additional similar appointments have been made.

A valuable addition to the Domestic Help scheme has been the collection of foul washing for laundering at Hospitals where the necessary machines are available. The co-operation of those Hospitals which carry out the actual laundering is greatly appreciated.

Recruitment of home nurses and midwives, particularly in rural areas is becoming increasingly difficult. For the present, by the increased use of part-time personnel as relief nurses the problem is being surmounted in the towns, but this is not always possible in the villages and some home nurses are necessarily being required to work in larger districts than is desirable.

For the first time, information is given about the "meals on wheels" services provided to aged and handicapped persons by the Women's Voluntary Services. This work is being gradually extended to many parts of the County, it is entirely voluntary, and is greatly appreciated by the recipients. Although it is not a County service it plays a great part in enabling elderly people to remain in their own homes and I must express my own appreciation of the time and energy expended by the voluntary workers in this most useful activity.

This report contains the last contribution made by Mr. Stacey Hallard, Chief Inspector of Weights and Measures, whose death took place in September of this year. I wish to pay tribute to his willing co-operation over many years, and to his most helpful attitude on every occasion when his assistance was called upon.

The section dealing with work under the Food and Drugs Act shows satisfactory results in the routine testing of milks from pasteurising and sterilising plants. The use of the unofficial Asechaffenburg test as well as the official Kay Graham test enables the County Laboratory to report the same day to the pasteuriser any sample which has failed to satisfy the test. Samples of school milk are also regularly taken and the results of tests are considered to be satisfactory. The routine testing of empty milk bottles for a bacterial count has resulted in a considerable

improvement in their cleanliness. Full details of all results whether satisfactory or not, of tests are sent to the firms concerned without delay and this practice, together with frequent sampling and visitation is considered to be a main factor in maintaining the low proportion of sample failures.

Cheshire accepted the invitation of the Director of the National Birthday Trust Fund to partake in the country-wide "perinatal" survey in March of this year when detailed particulars of 293 confinements were compiled and sent to the headquarters of the Fund. Courses of instruction were held for Health Visitors on problem children, and for home nurses on lifting techniques. 55 midwives attended refresher courses in various parts of the country.

Regular meetings were held at County Hall with Divisional Medical Officers, at which matters of mutual interest, new developments and ideas were freely discussed.

My grateful thanks are due to the Chairman and members of the County Health Committee for their help throughout the year, as well as to the Clerk of the County Council and all heads of departments for their unfailing co-operation.

Lastly I acknowledge with deep gratitude the loyalty and friendship which I have received at all times from the members, professional and lay, of the County Health Department.

I beg to remain,

Your obedient servant,

ARNOLD BROWN

October, 1958.

Staff of the Public Health Department

County Medical Officer of Health and Principal School Medical Officer	Arnold Brown, M.B., Ch.B., D.P.H.
Deputy County Medical Officer of Health	B. G. Gretton-Watson, M.A., M.B., B.Ch., D.P.H., Barrister-at-Law.
Senior Medical Officer for Maternity and Child Welfare	B. M. Butters, M.A., M.B., Ch. B., D.P.H.
Senior School Medical Officer	H. Craig, L.R.C.P. & S., L.R.F.P.S.
Senior Assistant Medical Officer	N. M. E. Robertshaw, B.Sc., M.B., Ch.B., D.R.C.O.G., D.C.H.
Assistant County Medical Officers	Jessie Anderson, M.B., Ch.B., D.P.H. R. A. Blyth, M.B., Ch.B., M.R.C.S., L.R.C.P. R. Cargill, M.B., Ch.B. Margaret Caton, M.R.C.S., L.R.C.P. R. J. Clark, M.B., Ch.B., D.P.H. Jenny Craig, M.B., Ch.B., D.P.H. Aitolia English, M.R.C.S., L.R.C.P., M.B., B.S., D.C.H. Marjorie Haw, M.B., Ch.B. (part-time) Barbara Jones, M.B., Ch.B. Hilda Lewis, M.R.C.S., L.R.C.P., M.B., B.S., D.P.H. Alta Ravenscroft, M.B., Ch.B. H. Summers, M.Sc., M.B., Ch.B. Jessie Tough, M.B., Ch.B., D.P.H. Joyce Vasey, M.B., B.S.
Divisional Medical Officers	
<i>Altrincham</i>	D. Longbottom, M.B., Ch.B., D.P.H.
<i>Bebington</i>	F. S. Melville, M.B., Ch.B., D.P.H.
<i>Cheadle and Wilmslow</i>	D. G. Anderson, M.B., Ch.B., D.P.H.
<i>Crewe</i>	D. G. Crawshaw, M.B., M.R.C.S., D.C.H., D.P.H.
<i>Deeside</i>	J. Hatton, M.D., D.P.H.
<i>Hyde</i>	F. W. C. Brown, M.D., D.P.H.
<i>Macclesfield</i>	
<i>Mid-Cheshire</i>	W. S. Slater, M.B., M.R.C.S., D.P.H.
<i>Nantwich</i>	R. K. Hay, M.D., B.Ch., B.A.O., D.P.H.
<i>N. E. Cheshire</i>	T. W. Brindle, M.B., Ch.B., D.P.H.
<i>Runcorn</i>	E. N. H. Gray, L.R.C.P. & S., L.M. D.P.H.
<i>Sale and Lymm</i>	E. H. Gordon, M.D., B.Ch., B.A.O., D.P.H.
<i>S. E. Cheshire</i>	L. Rich, M.B., Ch.B., M.R.C.O.G., D.P.H.
<i>S. W. Cheshire</i>	W. J. Birchall, M.B., M.R.C.S., L.R.C.P., D.P.H.
<i>Stalybridge and Dukinfield</i>	T. Holme, M.B., Ch.B., D.P.H.
County Analyst	J. G. Sherratt, F.R.I.C.
Dental Surgeons	A. F. Hely, C.B., L.D.S. (Principal). Edith Andrew, L.D.S.

Dental Surgeons

J. B. Andrew, B.D.S., R.C.S.
 E. Bradley, L.D.S.
 Dorothy Coates L.D.S.
 G. H. Craine, B.D.S.
 D. M. Dodd, L.D.S.
 G. J. Hartley, L.D.S.
 H. S. Holland, B.D.S., L.D.S.
 J. P. Hughes, L.D.S.
 R. H. Hurst, L.D.S.
 H. Jackson, L.D.S.
 Lisbeth Kippen, L.D.S., D.P.D.
 A. N. Leicester, B.D.S.
 J. G. McCracken, B.D.S.
 H. P. Meed, L.D.S.
 Ruth Owen, L.D.S.
 Barbara Petrie, L.D.S.
 E. S. Poulter L.D.S.
 J. A. Reece, L.D.S.
 H. W. S. Sheasby, L.D.S.
 E. Twelves, L.D.S.
 E. J. Taylor, L.D.S.
 Dorothy Walker, L.D.S.

Ophthalmic Surgeons (Part-time)

B. Boas, M.D.
 P. J. Devlin, M.B., Ch.B., D.O.M.S.
 A. Holmes-Smith, M.A., M.B., B.Chir.,
 D.O.M.S.

Orthopaedic Surgeons (Part-time)

C. Jacobs, M.D., M.B., B.S.
 E. Riley, M.B., Ch.B., D.O.M.S.
 L. R. C. Rose, L.M.S.S.A., D.O.
 Dorothy Simmons, M.B., Ch.B.
 T. Jackson, M.R.C.S., L.R.C.P.
 E. M. Kupfer, M.B., B.S., F.R.C.S.
 J. L. Mangan, F.R.C.S.I.
 K. Marks, M.Ch., F.R.C.S.
 T. McSweeney, M.B., M.Ch., F.R.C.S.
 A. G. O'Malley, M.Ch., F.R.C.S.
 G. T. Partridge, M.A., M.B., F.R.C.S.
 R. Roaf, M.A., F.R.C.S.
 G. A. Wetherell, M.B., M.Ch., F.R.C.S.

Paediatrician (Part-time) Ear, Nose and Throat Surgeons (Part-time)

J. D. Allan, M.D., F.R.C.P.
 E. M. Innes, F.R.C.S., D.L.O.

Chest Physicians (Part-time)

G. A. Moulden, M.B., Ch.B., D.L.O.
 J. Black, M.D., F.R.F.P.S., M.R.C.P.
 D. L. Caldwell, M.A., M.R.C.P.
 A. Fleming, M.B., Ch.B., D.P.H.
 A. C. C. Hughes, M.A., M.D., M.R.C.P.
 E. Ratner, M.D., Ch.B., D.P.H.
 E. R. Smith, M.D., Ch.B., D.P.H.
 D. W. C. Tough M.B., Ch.B., D.P.H.

Chief Administrative Assistant County Ambulance Officer County Health Inspector Supt. Authorised Officer Superintendent of Home Nursing Non-Medical Supervisor of Midwives Assistant Superintendent of Home Nursing

B. O'Connor, M.A., Barrister-at-Law
 R. G. Jones
 W. Pembleton
 J. Danby
 Miss I. N. Vaughan
 Miss M. A. Reynolds
 Miss E. Johnson

HEALTH VISITORS & SCHOOL NURSES (115)

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 1a. Miss J. Briscoe, Broomfield, Meols Drive, Hoylake (Tel. Hoylake 2322)	Hoylake U.D. (Meols & House Wards)	Welfare Centre, Broomfield, Meols Drive Thurs. p.m. Hoylake M.A. Clinic, Broomfield, Meols Drive, Fri. a.m. Hoylake Ante-Natal Clinic, Broomfield, Meols Drive, Tues. a.m. Hoylake Paediatric Clinic, Broomfield, Meols Drive, Mon. p.m. Hoylake Ante-Natal Booking Clinic, Broomfield, Meols Drive, Hoylake 2th & 4th Fri. p.m.
DISTRICT No. 1b. Miss W. Lacy, 3, Glebe Road, Wallasey	Hoylake U.D. (Central, Park & South Wards)	Welfare Centre, Parish Hall, West Kirby Fri. p.m. Hearing Clinic, Broomfield, Meols Drive, Mon. p.m. Hoylake Ante-Natal Clinic, Broomfield, Meols Drive, Alt. Tues. a.m. Hoylake Welfare Centre, Broomfield, Meols Drive, Thurs. p.m. Hoylake Welfare Centre, Parish Hall, West Kirby Fri. p.m. Ante-Natal Clinic, Broomfield, Meols Drive, Tues. a.m. Hoylake Hearing Clinic, Broomfield, Meols Drive, Mon. p.m. Hoylake
DISTRICT No. 1c. Mrs. D. Christian, 87, Palm Grove, Oxtou, Birkenhead (Tel. Birk. 4702)	Hoylake U.D. (Grange Ward, Caldý & Frankby Ward Pt. ii—Caldý)	Welfare Centre, Parish Hall, West Kirby Fri. p.m. Ante-Natal Clinic, Broomfield, Meols Drive, Tues. a.m. Hoylake Hearing Clinic, Broomfield, Meols Drive, Mon. p.m. Hoylake
DISTRICT No. 1d. Miss D. Maybury, 12, Far Meadow Lane, Irby, Heswall, Wirral (Tel. Irby 2564)	Hoylake U.D. (Greasby Ward, Caldý & Frankby Ward Pt. i—Frankby)	Welfare Centre, Methodist Church Hall, Tues. p.m. Greasby Ante-Natal Clinic, Broomfield, Meols Drive, Alt. Tues. a.m. Hoylake Eye Clinic, Broomfield, Meols Drive, 1st, 3rd & 5th Fri., p.m. Hoylake
DISTRICT No. 2a.		Welfare Centre, Victoria Hall, Hr. Bebington Tues. p.m. (Tel. Mountwood 1527) Welfare Centre, New Ferry Park, Wed. p.m. (Tel. R. F. 1143) Toddlers' Centre, New Ferry Park 2nd Thurs. p.m. Welfare Centre, Mayer Hall, Bebington Fri. p.m. (Tel. R. F. 1440) Paediatric Clinic, New Ferry Park 1st Tues. a.m. Welfare Centre, Victoria Hall, Hr. Bebington Tues. p.m. M.A. Clinic, St. Mark's Parish Room, New Mon., Wed. Fri. p.m. Ferry (Tel. R.F. 1213) Ante- & Post Natal Clinic, New Ferry Park Mon. a.m. Welfare Centre, Women's Institute, Thornton 1st and 3rd Fri. p.m. Hough Eye Clinic, St. Mark's Parish Room, New Fri. a.m. Ferry Ante- & Post Natal Clinic, New Ferry Park Mon. a.m. Welfare Centre, Mayer Hall, Bebington Fri. p.m. Paediatric Clinic, New Ferry Park, 3rd Tues. a.m. Welfare Centre, St. David's Presbyterian Mon. p.m. Church Hall, Eastham Eye Clinic, St. Mark's Parish Room, New Fri. a.m. Ferry Toddlers' Centre, St. David's Presbyterian 3rd Fri. p.m. Church Hall, Eastham Eye Clinic, New Ferry Park 3rd Sat. a.m. Ante- & Post Natal Clinic, New Ferry Park Fri. a.m. Welfare Centre, Council Offices, Bromborough Thurs. p.m. (Tel. Brom. 2102) M.A. Clinic, Council Offices, Bromborough 1st Tues. a.m.
Miss B. Shepherd, 13, Probyn Road, Wallasey (Tel. Wallasey 1060)	Bebington M.B. (Hr. Bebington Ward)	
Mrs. E. Symes, Flat 7, Windy Knowe, Waterford Road, Oxtou, Birkenhead (Tel. Birk. 1706)	Bebington M.B. (Poulton Ward)	
Miss E. Nicholson, Rock Mount, 37, Mill Road, Hr. Bebington (Tel. Mountwood 1949)	Bebington M.B. (Bebington & Sunlight Wards)	
Miss E. M. Wright, 705, Borough Road Birkenhead	Bebington M.B. (Eastham Ward pt. ii)	
Miss R. E. Abraham, 3, Rock Park, Rock Ferry (Tel. R.F. 728)	Bebington M.B. (N. & S. Bromborough Wards)	

	CIVIL PARISHES	CENTRES & CLINICS
District No. 2a—(cont.)		
Mrs. M. G. Garratt, 15, Wyedale Whitby, Ellesmere Port	Bebington M.B. (Park & New Ferry Wards)	Ante & Post Natal Clinic, New Ferry Park <i>Mon. & Fri. a.m.</i> Welfare Centre, New Ferry Park <i>Wed. p.m.</i>
Mrs. M. F. Cordon 8, Westbrook Road, Saughall Massie, Wirral	Bebington M.B. (Eastham pt. 1 and Woodhey Wards)	Welfare Centre, St. David's Presbyterian <i>Mon. p.m.</i> Church Hall, Eastham Welfare Centre, Council Offices, Bromborough <i>Thur. p.m.</i> Ante & Post Natal Clinic, New Ferry Park <i>Fri. a.m.</i> Eye Clinic, New Ferry Park <i>3rd Sat. a.m.</i>
DISTRICT No. 2b.		
Miss E. L. Roberts, 23, Penmon Drive, Heswall, Wirral	Capenhurst Ledsham Neston U.D. (Burton & Ness, Little Neston & Willaston Wards)	Puddington Shotwick Woodbank Welfare Centre, Mellock Lane, Neston <i>Thurs. p.m.</i> (Tel. Neston 2189) Preparation Class, Mellock Lane, Neston <i>2nd and 4th Fri. p.m.</i> Eye Clinic, Mellock Lane, Neston <i>1st Wed. a.m.</i> Ante-Natal Clinic, Mellock Lane, Neston <i>Mon. a.m.</i> Welfare Centre, Red Cross Depot, Willaston <i>1st & 3rd Fri. p.m.</i> Hearing Clinic, Mellock Lane, Neston <i>2nd and 4th Tues. a.m.</i> Hearing Clinic, Telegraph Rd., Heswall <i>1st and 3rd Tues. a.m.</i> Ante-Natal Clinic, Mellock Lane, Neston <i>Mon. a.m.</i> Paediatric Clinic, Mellock Lane, Neston <i>2nd and 4th Fri. n.m.</i> M.A. Clinic, Mellock Lane, Neston <i>Tues. a.m.</i> Welfare Centre, Mellock Lane, Neston <i>Thurs. p.m.</i> Preparation Class, Mellock Lane, Neston <i>1st, 3rd & 5th Fri. p.m.</i>
Miss P. M. Gant, 14, Waterford Drive, Little Neston, Cheshire	Neston U.D. (Leighton & Parkgate, Neston East & West Wards)	
DISTRICT No. 2c.		
Mrs. F. G. Sinden, Gayton Grange (Flat 2), Well Lane, Gayton, Wirral (Tel. Heswall 2706)	Irby Pensby Thurstaston	Welfare Centre, Methodist Hall, Mill Hill <i>Wed. p.m.</i> Road, Irby Ante-Natal Clinic, Telegraph Rd., Heswall <i>Thurs. n.m.</i> Ante-Natal Booking Clinic, Telegraph Rd., <i>1st Fri. p.m.</i> Heswall Welfare Centre, Telegraph Rd., Heswall <i>Mon. p.m.</i> Preparation Class, Telegraph Rd., Heswall <i>Alt. Thurs. p.m.</i> Hearing Clinic, Mellock Lane, Neston <i>2nd and 4th Tues. n.m.</i> Hearing Clinic, Telegraph Rd., Heswall <i>1st and 3rd Tues. a.m.</i>
DISTRICT No. 2d.		
Miss M. Okill, 79, Irby Road, Heswall, Wirral.	Barnston Gayton Heswall-cum-Oldfield	Welfare Centre, Telegraph Rd., Heswall <i>Mon. p.m.</i> (Tel. Heswall 3551) M.A. Clinic, Telegraph Rd., Heswall <i>Tues. p.m.</i> Eye Clinic, Telegraph Rd., Heswall <i>2nd & 4th Fri. p.m.</i> Ante-Natal Clinic, Telegraph Rd., Heswall <i>Thurs. o.m.</i> Ante-Natal Booking Clinic, Telegraph Rd., <i>3rd Fri. p.m.</i> Heswall Preparation Class, Telegraph Road, Heswall <i>Alt. Thurs. p.m.</i> Paediatric Clinic, Telegraph Rd., Heswall <i>1st and 3rd Fri. a.m.</i>
DISTRICT No. 3a.		
Miss C. G. McKee, 12, Thamesdale, Ellesmere Port (Tel. E. P. 2542)	Ellesmere Port M.B. (Westminster Ward)	Toddlers Clinic, York Road, Ellesmere Port <i>1st Fri. p.m.</i> (Tel. E. Port 1328) Ante-Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m. and Fri. a.m.</i>

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 3a contd.

Miss R. E. Ruark, 187, Raeburn Avenue, Eastham	Ellesmere Port M.B. (Grange Ward)	Ante-Natal Clinic, Chester Road, Little <i>Mon. a.m.</i> Sutton Midwives' Clinic, Chester Rd., Little Sutton <i>Thurs. p.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m. and Fri. a.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Fri. p.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Fri. p.m.</i> Ante-Natal Clinic, York Rd., Ellesmere Port <i>Wed. p.m.</i> E.N.T. Clinic, York Road, Ellesmere Port <i>Alt. Mon. a.m.</i> Welfare Centre, Community Centre, <i>1st & 3rd Thurs. p.m.</i> Overpool Ante-Natal Clinic, Chester Road, Little <i>Alt. Mon. a.m.</i> Sutton Welfare Centre, York Road, Ellesmere Port <i>Tues. p.m.</i> Ante-Natal Clinic, York Road, Ellesmere Port <i>Wed. p.m. and Fri. a.m.</i> Ante-Natal Clinic, Chester Road, Little <i>Mon. a.m.</i> Sutton Welfare Centre, Village Hall, Ince <i>4th Thurs. p.m.</i> M.A. Clinic, York Rd., Ellesmere Port <i>Mon. & Thurs. a.m.</i> Welfare Centre, York Road, Ellesmere Port <i>Tues. p.m.</i> Ante-Natal Clinic, York Rd., Ellesmere Port <i>Wed. p.m.</i> Welfare Centre, Chester Road Little Sutton <i>Mon. p.m.</i> (Tel. Hooton 3297) M.A. Clinic, Chester Road, Little Sutton <i>Fri. a.m.</i> Midwives' Clinic, Chester Road, Little Sutton <i>Thurs. a.m.</i> Ante-Natal Clinic, Chester Road, Little <i>Mon. a.m.</i> Sutton Welfare Centre, Community Centre, Overpool <i>1st & 3rd Thurs. p.m.</i> Eye Clinic, York Road, Ellesmere Port <i>Fri. a.m.</i> Welfare Centre, Chester Road, Little Sutton <i>Mon. p.m.</i>
Miss G. M. Thorburn, Flat 2, 35, Liverpool Road Chester	Ellesmere Port M.B. (Central AB, & Whitby Ward)	
Miss M. L. Bate, Waterdale, 86, Chester Road, Ellesmere Port (Tel. E. P. 3009)	Ellesmere Port M.B. (Stanlow Ward)	
Mrs. D. Dromgoole, 22, Raymond Street, Chester	Ellesmere Port M.B. (Victoria & Central AA Wards)	
Miss J. F. Fawcett, 52, Princes Boulevard, Bebington (Tel. Rock Ferry 4544)	Ellesmere Port M.B. (Sutton Ward)	
Miss K. E. Cawthorn, 19, Kirket Lane, Bebington	Ellesmere Port M.B. (Poole Ward)	

DISTRICT No. 3b,

Miss D. Toft, Golf House, The Oaks, Upton, Chester Tel. Chester 23638)	Aldford Buerton Chester Castle Christleton Churton Heath Claverton Doddleston Eaton Feclesten Golborne Bellow Golborne David	Handley Huntington Kinnerton Lea Newbold Marlston Newton-by-T'hal Poulton Pulford Rowton Saighton Tattenhall	Welfare Centre, Barbour Institute, Tattenhall <i>1st & 3rd Mon. p.m.</i> Welfare Centre, Village Hall, Huntington <i>2nd & 4th Wed. p.m.</i> M.A. Clinic, Barbour Institute, Tattenhall <i>Wed. a.m.</i> Wives' Club Clinic, Saughton Camp <i>1st Wed. p.m.</i> Welfare Centre, Womens' Institute, <i>1st & 3rd Thurs. p.m.</i> Christleton
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DISTRICT No. 4a

Miss B. Jackson, 30, Acres Lane, Upton, Chester	Barrow Bridge Trafford Dunham-on-the- Hill Elton Great Boughton Gulden Sutton Hapsford Hoole Village	Littleton Little Stanney Mickle Trafford Picton Stoke Thornton-le- Moors Wimbolds Trafford	M.A. Clinic, 55, Hoole Road, Chester <i>2nd Wed. p.m.</i> (Tel. Chester 22299) Eye Clinic, 55, Hoole Road, Chester <i>2nd & 5th Thurs. p.m.</i> Welfare Centre, Village Hall, Barrow <i>1st & 3rd Wed. p.m.</i> Hearing Clinic, 55, Hoole Rd., Chester <i>2nd & 4th Fri. p.m.</i>
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DISTRICT No. 4b.

Miss M. G. E. Crawford, "Wirswall," 12, Newton Park View. Newton, Chester Tel. Chester 24420)	Bache Backford Caughall Chorlton-by- Backford Croughton	Lea-by-Backford Mollington Moston Saughall Shotwick Park Upton Wervin	Welfare Centre, Village Hall, Upton <i>Thurs. p.m.</i> Welfare Centre, Vernon Institute, Saughall <i>1st, 3rd & 5th Mon. p.m.</i>
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	CIVIL PARISHES		CENTRES & CLINICS
DISTRICT No. 5 Miss M. Gourlay, Castle View, Clotton Lane, Huxley, Chester	Ashion Beeston Bruen Stapleford Burton-by-Tarvin Clotton Hoofield Cotton Abbotts Cotton Edmunds Delamere Duddon Eaton Foulk Stapleford Hatton Hockenhull Horton-cum-Peel	Huxley Iddinshall Kelsall Mouldsworth Pryor's Heys Rushton Tarporley Tarvin Tilstone Fearnall Tiverton Utkinton Waverton Willington	Welfare Centre, Victory Hall, Tarporley. <i>2nd & 4th Thurs. p.m.</i> Welfare Centre, Parish Hall, Kelsall <i>1st & 3rd Tues. p.m.</i> M.A. Clinic, Victory Hall Tarporley. <i>Fri. a.m.</i> Welfare Centre, Radcliffe's Hut, Tarvin <i>2nd & 4th Wed. p.m.</i> Eye Clinic, Victory Hall, Tarporley <i>1st Thurs. p.m.</i>
DISTRICT No. 6 Miss W. Jones, Lyle Villas, Caergwrle, Nr. Wrexham	Agden Aldersey Barton Bickerton Bickley Bradley Broxton Burwardsley Caldecott Carden Chidlow Chorlton Chowley Church Shocklach Churton-by-Alld Ch'rton-by-F'don Clutton Coddington	Crewe Cuddington Duckington Edge Edgerley Egerton Farndon Grafton Hampton Harthill Horton Kings Marsh Larkton Macefen Malpas Newton-by-Malpas Oldcastle	Welfare Centre, Parish Hall, Malpas <i>1st, 3rd & 5th Mon. p.m.</i> M.A. Clinic, Jubilee Hall, Malpas <i>Tues. p.m.</i> Welfare Centre, Memorial Hall, Farndon <i>All. Thurs. p.m.</i> Hearing Clinic, Jubilee Hall, Malpas <i>1st & 3rd Tues. p.m.</i> Overton Shocklach Oviatt Stockton Stretton Threapwood
DISTRICT No. 7a. Mrs. W. A. Needham 10, Stanley Villas, Greenway Road, Runcorn. (Tel. Runcorn 2556)	Runcorn U.D. (Halton & Grange Wards)		Paediatric Clinic, Memorial Hospital, Runcorn <i>Wed. p.m. (even months)</i> Welfare Centre, 34, Halton Road, Runcorn (Tel. Runcorn 2449) <i>Wed. a.m. & Wed. p.m. (odd months)</i> Ante-Natal Clinic, 34, Halton Road, Runcorn <i>Thurs. a.m.,</i> Welfare Centre, 34, Halton Road, Runcorn <i>Wed. p.m. (even months)</i> M.A. Clinic, 28, Halton Rd., Runcorn <i>Mon. & Fri. a.m. (Tel. Runcorn 3621)</i> Welfare Centre, Conservative Hall, Weston <i>1st & 3rd Thurs. p.m. Point</i> Welfare Centre, 34, Halton Road, Runcorn <i>Wed p.m.</i> Toddlers' Clinic, 34 Halton Road, Runcorn <i>2nd Thurs. p.m.</i> Paediatric Clinic, Memorial Hospital, Runcorn <i>Wed. p.m. (odd months)</i> Welfare Centre, 34, Halton Road, Runcorn <i>Wed. a.m.</i> Ante- & Post-Natal Clinic, 34, Halton Road, <i>Thurs. a.m. Runcorn</i> Eye Clinic, 28, Halton Road, Runcorn <i>Tues. p.m.</i>
Mrs. E. Briers, 17, Cornwall Avenue, Runcorn	Runcorn U.D. (Weston Ward)		
Miss A. Davies, 3, Cornwall Street, Runcorn	Runcorn U.D. (Heath and Victoria Wards)		
Mrs. J. Delaney, 8, Boston Avenue, Runcorn	Runcorn U.D., (Bridgewater & Mersey Wards)		
DISTRICT No. 7b. Miss S. E. Robinson, 10, Stanley Villas, Runcorn (Tel. Runcorn 2556)	Aston Daresbury Dutton Halton Hatton Kingsley Moore	Norley Norton Preston Brook Sutton Walton Whitley	Welfare Centre, Hurst Church Hall, Kingsley <i>2nd & 4th Wed. p.m.</i>
DISTRICT No. 8. Miss R. Potter, 262, Padgate Lane, Padgate, Warrington	Alvanley Frodsham Helsby	Manley	Welfare Centre, The Rock, Frodsham <i>Alt. Tues. p.m. (Tel. Frodsham 2388)</i> Eye Clinic, The Rock, Frodsham <i>2nd Wed. a.m. & 4th Thurs. a.m.</i> Welfare Centre, Cable Works, Helsby <i>All. Tues. p.m.</i>

CIVIL PARISHES		CENTRES & CLINICS
DISTRICT No. 9a Miss J. L. Hill Darland House, Winnington Hill, Northwich (Tel. Northwich 4643)	Acton Anderton Barnton Comberbach Crowton	Great Budworth Little Leigh Marbury M.A. Clinic, Methodist Church, Barnton <i>Wed. a.m.</i> Welfare Centre, Meth. Church, Barnton <i>2nd & 4th Wed. p.m.</i> Welfare Centre Parish Hall, Comberbach <i>1st & 3rd Wed. p.m.</i> Welfare Centre, 23, Church Lane, <i>Tues. p.m.</i> Weaverham
DISTRICT No. 9b. Mrs. J. Bleazard, Cartref, West Road, Weaverham, Northwich (Tel. Weaverham 2330)	Weaverham	Welfare Centre, 23, Church Lane, Weaverham <i>Tues. p.m.</i> (Tel. Weav. 3177) M.A. Clinic, 23, Church Lane, Weaverham <i>Fri. a.m.</i> Eye Clinic, 23, Church Lane, Weaverham <i>3rd Fri. p.m.</i>
DISTRICT No. 10. Miss D. Parkinson, 131, Walnut Avenue, Weaverham, Northwich Miss H. M. Dawson, Bollin Grove, Prestbury, Macclesfield	Allstock Aston-by-Bud'th Bexton, Goostrey Marston Mere Nether Peover Knutsford U.D. Ollerton Peover Superior Toft	Peover Inferior Pickmere Plumley Tabley Inferior Tabley Superior Wincham Welfare Centre, The Institute, Lower Peover <i>2nd Mon. p.m.</i> Eye Clinic, Parkfield, Northwich <i>1st, 2nd & 3rd Thurs. a.m.</i> Welfare Centre, Social Club, Goostrey <i>1st & 3rd Tues. p.m.</i> Welfare Centre, Village Hall, Plumley <i>1st & 3rd Thurs. p.m.</i> Welfare Centre, County Offices, Bexton Rd., <i>Wed. p.m.</i> Knutsford (Tel. Knutsford 273) M.A. Clinic, County Offices, Bexton Road, <i>Wed. a.m.</i> Knutsford Eye Clinic, County Offices, Bexton Rd., <i>3rd. Thurs. p.m.</i> Knutsford Welfare Centre, Parish Room, Over Peover <i>1st & 3rd Mon. p.m.</i> Immunisation & Vaccination Clinic, Bexton <i>Last Thurs. a.m.</i> Road, Knutsford Hearing Clinic, County Offices, Bexton Rd., <i>2nd & 4th Fri. a.m.</i> Knutsford Hearing Clinic, 3 Alma Lane, Wilmslow <i>1st & 3rd Fri. a.m.</i>
DISTRICT No 11. Miss A. McDonald, 131, Walnut Avenue, Weaverham, Northwich. 2, Dyar Terrace, Winnington, Northwich (Northwich 4529)	Northwich U.D. (Witton and Northwich BA Wards) Northwich U.D. (Castle and Winnington Wards)	Welfare Centre, Darland House, Northwich <i>Tues. p.m.</i> (Tel. Northwich 4643) Welfare Centre, Parkfield, Northwich <i>Thurs. p.m.</i> (Tel. Northwich 2186) Paediatric Clinic, Darland House, Northwich <i>4th Mon. p.m.</i> M.A. Clinic, Darland House, Northwich <i>Tues. a.m. and Fri. p.m.</i> Ante-Natal Clinic, Parkfield, Northwich <i>Mon. p.m.</i> Welfare Centre, Darland House, Northwich <i>Tues. p.m.</i> M.A. Clinic, Darland House, Northwich <i>2nd Fri. p.m.</i>
DISTRICT No. 12a, Mrs. M. T. H. Twigg 7, St. Leonards Drive, Timperley, Altrincham (Tel. Altrincham 5229)	Lach Dennis Lostock Grlam Rudheath Whatercroft	M.A. Clinic, Parkfield, Northwich <i>Mon., Wed. & Fri. a.m.</i> Welfare Centre, Parkfield, Northwich <i>Thurs. p.m.</i> Ante-Natal Clinic, Parkfield, Northwich <i>Mon. p.m.</i> Welfare Centre, Alkali Social Club, Lostock <i>2nd & 4th Wed. p.m.</i> Grlam
DISTRICT No. 12b. Miss P. Holt, Ivy House, Dunham Town, Altrincham (Tel. Altrincham 2505)	Cuddington Hartford	Welfare Centre, Community Centre, Delamere Park, Cuddington <i>1st. & 3rd. Wed. p.m.</i> E.N.T. Clinic, Parkfield, Northwich <i>2nd. Fri. a.m.</i> Welfare Centre, Meth. Chapel, Hartford <i>2nd & 4th Tues. p.m.</i> Ante-Natal Clinic, Parkfield, Northwich <i>Mon. p.m.</i> Welfare Centre, Church Hall, Sandiway <i>1st & 3rd Tues. p.m.</i>

	CIVIL PARISHES	CENTRES & CLINICS	
DISTRICT No. 13a Mrs. M. Brown Tudor Cottage, Onston Lane, Cuddington, Northwich (Tel. Weaverham 2357)	Winsford U.D. (Vale Royal & Wharton Wards) Darnhall Marton Little Budworth Moulton Oakmere	Welfare Centre, 98, Weaver Street, Winsford Fri. & 1st Thurs. p.m. (Tel. Winsford 2387) Welfare Centre, Church Hall, Moulton 3rd Wed. p.m. Eye Clinic, 98, Weaver Street, Winsford 1st, 3rd & 4th Thurs. p.m.	
DISTRICT No. 13b. Miss J. M. Cassick, 471, Chester Road, Hartford, Nr. Northwich (Tel. Sandiway 2040)	Winsford U.D. (Gravel, Over & Swanlow Wards)	Welfare Centre, 98, Weaver Street, Winsford Fri. & 1st Thurs. p.m. M.A. Clinic, 98, Weaver Street. Winsford Mon. p.m. E.N.T. Clinic, 98, Weaver Street, Winsford 2nd Wed. p.m. Preparation Class, 98, Weaver St., Winsford Wed. p.m.	
DISTRICT No. 14a. Miss M. Barlow, 15, Thirlmere Road, Wistaston, Nantwich	Middlewich U.D. Sproston Byley Church Hulme Cranage	Welfare Centre, 85, Wheelock Street, Middle- Mon. p.m. wich M.A. Clinic, 85, Wheelock Street, Middlewich Mon. a.m. (Tel. Middlewich 165) Eye Clinic, 85, Wheelock Street, Middlewich 3rd Tues. p.m. E.N.T. Clinic, 85, Wheelock Street, Middle- Even months 4th Thurs. a.m. wich Welfare Centre, Mothers' Union Hut, 2nd & 4th Tues. p.m. Holmes Chapel	
DISTRICT No. 14b, Miss A. Gratrix, 85, Wheelock Street, Middlewich	Northwich U.D. (Northwich BB Ward) Bostock Stanthorne Davenham Tetton Wimboldsley	Welfare Centre, Methodist Church, 1st Mon. p.m. Davenham Welfare Centre, Farm of the Good Shepherd, Lefwich Estate 2nd and 4th Tues. p.m.	
DISTRICT No. 15. Miss E. M. Scott, 151, Welsh Row, Nantwich	Nantwich U.D. (Barony, Wellington and Willaston Wards) Alraham Leighton Aston-juxta Minshull Vernon Mondrum Poole Calveley Wardle Cholmondeston Wettenhall Church Minshull Woolstanwood Henhull Worleston	Welfare Centre, The Dowery, Nantwich Thurs. p.m. (Tel. Nantwich 5360) M.A. Clinic, The Dowery, Nantwich Wed. a.m. Eye Clinic, The Dowery, Nantwich 2nd, 3rd, 4th, & 5th Thurs. a.m. Preparation Class, The Dowery, Nantwich Mon. p.m.	
DISTRICT No. 16a Mrs. F. G. Kirkham, St. Bees, Marsh Lane, Nantwich	Nantwich U.D. (Weaver Ward) Acton Haughton Baddiley Hurleston Eaddington Marbury Brindley Norbury Broomhall Peckforton Bulkeley Ridley Bunbury Sound Burland Spurstow Cholmondeley Stoke Chorley Wirswall Edleston Woodcott Faddil ey Wrenbury	Welfare Centre, The Dowery, Nantwich Thurs. p.m. Welfare Centre, Parish Hall, Wrenbury, 2nd & 4th Wed. p.m. Welfare Centre, Oddfellows Hall, Bunbury 1st and 3rd Fri. p.m.	
DISTRICT No. 16b. Miss D. Griffiths, East View, Little Heath, Audlem	Audlem Austerston Batherton Blakenhall Bridgemere Buerton Checkley-cum- Wrinchill Chorlton Coole Pilate Dodcott-cum- Wilkesley	Doddington Hankelow Hatherton Hough Hunsterson Lea Newhall Stapeley Shavington Walgherton Wybunbury	Welfare Centre, Wesleyan Chapel, Audlem 1st and 3rd Tues. p.m. Welfare Centre, Church Hall, Shavington 2nd & 4th Tues. p.m.

	CIVIL PARISHES		CENTRES & CLINICS
DISTRICT No. 16c. Miss R. Walch, Wychdale, Colleys Lane, Willaston, Nantwich	Willaston Wistaston		Welfare Centre, Memorial Hall, Church Lane 2nd. & 4th. Wed. p.m. Wistaston Paediatric Clinic, Stalbridge Rd., Crewe 1st Fri. p.m.
DISTRICT No. 17a Mrs. A. Clayton, The Dowery, Barker Street, Nantwich	Barthomley Crewe (Rural) Basford Haslington	Rope Warmingham Weston	We liare Centre, Yoxall Institute, Haslington 2nd & 4th Tues. p.m. E.N.T. Clinic, Marriott House, Sandbach 4th Fri. a.m.
DISTRICT No. 17b Miss A. Mullany§ 151, Welsh Row, Nantwich	Crewe M.B. (South District)		
Mrs. F. E. Strowbridge,§ 120, Stewart Street, Crewe (Tel. Crewe 4580)	Crewe M.B. (Central District)		
Mrs. L. M. D. Atkinson,* 12, Crewe Road, Shavington	Crewe M.B. (East District)		
Miss E. Broom,* 10, Clifton Avenue, Crewe	Crewe M.B. (North Central District)		Paediatric Clinic, Ludford Street, Crewe 3rd Fri. p.m. (Tel. Crewe 2376)
Miss J. S. Reid,* 199, Edleston Road, Crewe	Crewe M.B. (West & Coppenhall District)		Welfare Centre, Minshull New Road, Crewe 1st, 3rd and 5th Mon. p.m. E.N.T. Clinic, Ludford Street, Crewe 3rd Fri. a.m. Child Welfare Clinic, Ludford Street, Crewe Thurs. a.m. & p.m. M.A. Clinic, Ludford Street, Crewe Mon. & Wed. a.m. Ante- & Post Natal Clinic, Ludford Street, Wed. p.m. Crewe Eye Clinic, Ludford Street, Crewe 1st, 2nd, 4th & 5th Fri. a.m. Child Welfare Clinic, Stalbridge Road, Crewe Mon. p.m. & Wed. a.m. (Tel. Crewe 2450) M.A. Clinic, Stalbridge Road, Crewe Tues. a.m. Eye Clinic, Stalbridge Road, Crewe As required Paediatric Clinic, Stalbridge Road, Crewe 1st Fri. p.m. Ante- and Post Natal Clinic, Stalbridge Road, Thurs. p.m. Crewe
*These Health Visitors also attend on rota the four other Clinics listed opposite.			
§ These Health Visitors also attend the Clinics listed opposite.			
DISTRICT No. 17c. Miss E. G. Smith, 42, Primrose Avenue, Haslington, Crewe	Alsager U.D. Betchton	Hassall	Welfare Centre, St. Mary's Sunday School, 1st and 3rd Tues. a.m. & p.m. Alsager M.A. Clinic, 15, Centre Court, Alsager Mon.—Fri. 9-10 a.m. (Tel. Alsager 628) Eye Clinic, 15, Centre Court, Alsager 1st & 3rd Weds. a.m. Preparation Class, 15, Centre Court, Alsager 2nd & 4th Thurs. p.m.
DISTRICT No. 18a. Miss M. A. Cowley,* 2, Dyar Terrace, Winnington, Northwich (Tel. Northwich 4529)	Antrobus	Grappenhall	Welfare Centre, Methodist Sunday School, Tues. p.m. Grappenhall
Miss M. Lea,* 18, Oughtrington Lanc, Lymm	Appleton	Stretton	Hearing Clinic, Methodist Sunday School, 3rd Thurs. p.m. Grappenhall
DISTRICT No. 18b. Miss M. Newbold,* 62, Fairfield Gardens, Stockton Heath, Warrington	Stockton Heath		Welfare Centre, 65, Whitefield Road, Stockton Mon. p.m. Heath (Tel. S.H. 925) M.A. Clinic, 65, Whitefield Road, Stockton Mon.—Fri. 9-10 a.m. Heath Eye Clinic, 65, Whitefield Road, Stockton 4th Tues. p.m. Heath Preparation Class, 65, Whitefield Road, Fri. p.m. Stockton Heath
*These H.V.'s attend on rota the clinic opposite			

	CIVIL PARISHES		CENTRES & CLINICS
DISTRICT No. 19 Miss F. L. Govan, 29, Eagle Brow, Lymm, Warrington	Lymm U.D. High Legh	Warburton	Welfare Centre, 29, Eagle Brow, Lymm <i>Tues. p.m. 2nd & 4th Wed. p.m.</i> (Tel. Lymm 277) M.A. Clinic, 29, Eagle Brow, Lymm <i>Wed. a.m.,</i> Eye Clinic, 29, Eagle Brow, Lymm <i>4th Thurs. p.m.</i> Midwives Clinic, 29, Eagle Brow, Lymm <i>Thurs. p.m.</i>
DISTRICT No. 20. Miss M. Saunders,* 10, Newlyn Drive, Brooklands, Sale Mrs. E. Heywood,* 70, Chapel Road, Sale Tel. Sale 1329) Mrs. M. Holmes* 60, Broad Road, Sale Miss B. Cunliffe,* 76, Harboro' Road, Sale Miss J. Sidebottom,* 9, South Road, Bowdon	Sale M.B. (St. Martin's & Mersey (NP) Wards) Sale M.B. (Sale Moor Ward) Sale M.B. (St. Anne's NB & St. John's Wards) Sale M.B. (St. Mary's and Brooklands Wards) Sale M.B. (St. Paul's, St. Anne's (NA & NC) & Mersey (NQ & NR)) Wards)		Welfare Centre, Raglan Road, Sale <i>Tues. p.m.</i> Welfare Centre, Brookes Institute, Sale <i>Fri. p.m.</i> Welfare Centre, Community Centre, Sale <i>Thurs. p.m.</i> Moor M.A. Clinic, 70, Chapel Road, Sale <i>Wed. a.m.</i> Welfare Centre, 70, Chapel Road, Sale <i>Tues. p.m.</i> Ante- & Post Natal Clinic, 70, Chapel Road, Sale <i>Wed. p.m.</i> Hearing Clinic, 70, Chapel Rd., Sale <i>Tues. a.m.</i> Welfare Centre, Community Centre, Sale <i>Thurs. p.m.</i> Moor Welfare Centre 70, Chapel Road, Sale <i>Thurs. p.m.</i> Welfare Centre, Raglan Road, Sale <i>Tues. p.m.</i> Welfare Centre, Brookes Institute, Sale <i>Fri. p.m.</i> Welfare Centre, 70, Chapel Road, Sale <i>Tues. & Thurs. p.m.</i> Hearing Clinic, 70, Chapel Rd., Sale <i>Tues. a.m.</i> Sun-ray Clinic, 70, Chapel Road, Sale <i>Mon. & Fri. p.m.</i> Eye Clinic, 70, Chapel Road, Sale <i>Mon., a.m.</i> Immunisation Clinic 70, Chapel Road, Sale <i>Fri. a.m.</i>
*These Health Visitors also attend on rota the Clinics opposite.			
DISTRICT No. 21a. Miss E. Edwards, Top Flat, 1, Hawthorn Road, Hale, Altrincham Miss A. Milvenan, 1, Bollin Court, Bowdon, Altrincham	Hale U.D. (North, Central & West Wards) Ashley Bowdon U.D. Hale U.D. (Hale Barns Ward) Ringway Rostherne Tatton		M.A. Clinic, 9, Broomfield Lane, Hale (Tel. Alt. 4653) <i>Mon. & Fri. p.m., Wed. a.m.</i> Welfare Centre, 9, Broomfield Lane, Hale <i>2nd-5th Wed. p.m.</i> Ante-Natal Clinic, 9, Broomfield Lane, Hale <i>1st Wed. p.m.</i> Eye Clinic, 9, Broomfield Lane, Hale <i>Tues. a.m.</i> Vaccination and Immunisation Clinic, 9, Broomfield Lane, Hale <i>1st Thurs. a.m.</i> Welfare Centre, Methodist Schoolroom, <i>2nd & 4th Thurs. p.m.</i> Bowdon Welfare Centre, 9, Broomfield Lane, Hale <i>2nd-5th Wed. p.m.</i> Ante-Natal Clinic, 9, Broomfield Lane, Hale <i>1st Wed. p.m.</i> Welfare Centre, Unitarian School Room, Hale <i>1st & 3rd Thurs. p.m.</i> Barns
DISTRICT No. 21b Miss L. E. H. Tripp, Sampford Brett, Wainwright Road, Altrincham (Tel. Altrincham 1884) Mrs. F. Pickering, 16, Denstone Ave., Davyhulme, Urmston, Manchester	Agden Bollington Carrington Altrincham M.B. (Dunham & North Wards)	Dunham Massey Millington Partington	Welfare Centre, St. Mary's Institute, <i>1st & 3rd Thurs. p.m.</i> Partington M.A. Clinic, 12, The Mount, Altrincham <i>Even months Mon. a.m.</i> (Tel. Alt. 1733) Welfare Centre, 12, The Mount, Altrincham <i>Wed. p.m.</i>

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 21b (cont.)		
Mrs. M. L. Baker, 38, Delahays Road, Hale, Altrincham	Altrincham M.B. (East, Central & South West Wards)	Vacc. & Imm. Clinic, 12, The Mount, 2nd Wed. a.m. Altrincham Welfare Centre, 12, The Mount, Altrincham Mon. & Wed. p.m. Hearing Clinic, 12, The Mount, Altrincham 1st & 3rd Tues. a.m. Hearing Clinic, 145, Park Road, Timperley 2nd & 4th Thurs. a.m. M.A. Clinic, 12, The Mount, Altrincham Odd months Mon. a.m. Welfare Centre, 145, Park Road, Timperley Tues. & Thurs. p.m. Hearing Clinic, 145, Park Rd., Timperley 2nd & 4th Thurs. a.m. Hearing Clinic, 12, The Mount, Altrincham 1st & 3rd Tues. a.m. Ante-Natal Clinic, 145, Park Road, Timperley 2nd & 4th Mon. p.m. Ante-Natal Clinic, 145, Park Rd., Timperley 2nd & 4th Mon. a.m. (Tel. Sale 6639) Welfare Centre 145, Park Road, Timperley Thurs. a.m. & p.m. M.A. Clinic 145, Park Rd., Timperley Wed. a.m. Welfare Centre, 145, Park Road, Timperley Tues. a.m. & p.m.,
Mrs. E. G. Morrison, 21, Thorley Lane, Timperley.	Altrincham M.B. (Timperley No. 1 & No. 3 Wards)	
Miss F. M. Burt, 37, Barrington Road, Altrincham	Altrincham M.B. (Timperley No. 4. (AU, AV and AW Ward)	
Miss D. Whitworth, 12 Nethercroft Road, Timperley, Altrincham	Altrincham M.B. (Timperley No. 2 & No. 4, AS & AT) Wards)	
DISTRICT No. 22a		
Miss C. M. Marsh, 23, King's Close, Wilmslow, Cheshire	Alderley Edge U.D. Wilmslow U.D. Chorley (Hough & Morley Great Warford Wards) Marthall Mobberley	Welfare Centre, Victory Hall, Mobberley Alternate Tues p.m. Welfare Centre, Church Institute, Alderley Fri. p.m. Edge Hearing Clinic, 3, Alma Lane, Wilmslow 1st Fri. a.m.
DISTRICT No. 22b		
Miss K. Halstead, 11, Park Road, Cheadle	Wilmslow U.D. (Dean Row, pt. i., Handforth & Styal Wards) Cheadle and Gatley U.D. (Heald Green Ward Pt. ii, West of Wilmslow Rd., only)	Welfare Centre, Conserv. Women's Club, 2nd & 4th Mon. p.m. Handforth M.A. Clinic, 3, Alma Lane, Wilmslow Thurs. a.m. Welfare Centre, 3, Alma Lane, Wilmslow Thurs. p.m.
DISTRICT No. 22c		
Miss D. M. Bowers, 1, Albany Road, Wilmslow, Cheshire	Wilmslow U.D. (Dean Row, pt. ii, and Fulshaw Wards)	Welfare Centre, 3, Alma Lane, Wilmslow Thurs. p.m. M.A. Clinic, 3, Alma Lane, Wilmslow Thurs. 9-10 a.m. Eye Clinic, 3 Alma Lane, Wilmslow 1st Tues. p.m. Welfare Centre, Parish Hall, Barlow Road, 1st & 3rd Mon. p.m. Lacey Green
DISTRICT No. 23a		
Miss N. R. Williams, Ivy Cottage, Snelson, Chelford, Macclesfield	Bosley Chelford Eaton Gawsworth Henbury Hulme Walfield Marton Mottram-St.- Andrew North Rode	Nether Alderley Over Alderley Prestbury Siddington Somerford Somerford Booths Snelson Swettenham Twemlow Withington
DISTRICT No. 23b.		
Miss M. A. Wright, Mottram Gate, Withinlee Road, Prestbury, Macclesfield	Macclesfield M.B. (Central District)	Ante Natal Clinic, 52, Bridge Street, 1st & 3rd Wed. p.m. Macclesfield Preparation Class, Hurdsfield House, 4th Wed. p.m. Macclesfield Welfare Centre, 52, Bridge Street, Macclesfield (Tel. Macc. 5501) 2nd, 4th & 5th Tues. p.m., Mon. p.m. Fri. p.m.

CIVIL PARISHES

CENTRES & CLINICS

DISTRICT No. 23b. cont.

Miss F. M. Yates,
17, Newhall Street,
Macclesfield

Macclesfield M.B.
(South West District)

Welfare Centre Sanders Square, Macclesfield
Thurs. & Fri. p.m. (Tel. Macc. 3800)
Ante-Natal Clinic, Sanders Square, Macclesfield
4th Wed. p.m.

Preparation Class, Sanders Square
Mon. p.m. Macclesfield

M.A. Clinic, Sanders Square, Macclesfield
Mon. a.m.

Ante-Natal Clinic, Hurdsfield House,
Brocklehurst Ave., Macclesfield
2nd Wed. p.m. (Tel. Macc. 3282)

Ante-Natal Clinic, 52, Bridge Street, Macc.
1st & 3rd Wed. p.m.

Welfare Centre, Hurdsfield House, Macclesfield
Tues. & Thurs. p.m.

Ante-Natal Clinic, Hurdsfield House, Macc.
2nd Wed. p.m.

Ante-Natal Clinic, Sanders Square, Macc.
4th Wed. p.m.

Preparation Class, Hurdsfield House, Macclesfield
1st Wed. p.m.

Ante-Natal Clinic, 52, Bridge Street, Macc.
3rd Wed. p.m.

Welfare Centre, Sanders Square, Macclesfield
Fri. p.m.

Welfare Centre, 52, Bridge Street, Macc.
Mon. & Fri. p.m.

M.A. Clinic, Pierce Street, Macclesfield
Tel. Macc. 3053)

Tues. & Fri. a.m.

Eye Clinic, Pierce Street, Macclesfield
1st Mon. p.m., 1st, 3rd & 4th Tues. p.m.
4th Thurs. a.m.

E.N.T. Clinic, Pierce Street, Macclesfield
1st Fri. a.m.

Welfare Centre, Heyes Hall, Weston
Wed. p.m.

Welfare Centre, Hurdsfield House, Macc.
Thurs. p.m.

Ante-Natal Clinic, Hurdsfield House, Macc.
2nd & 3rd Wed. p.m.

Ante-Natal Clinic, 52, Bridge Street, Macclesfield
1st Wed. p.m.

Eye Clinic, Pierce Street, Macclesfield
1st Mon. p.m. 1st, 3rd & 4th Tues. p.m.
4th Thurs. a.m.

Welfare Centre, Sanders Square, Macclesfield
Fri. p.m.

Ante-Natal Clinic, Sanders Square, Macc.
4th Wed. p.m.

M.A. Clinic, Sanders Square, Macclesfield
Tues.—Fri. 9-15-10 a.m.

M.A. Clinic, Pierce Street, Macclesfield
Mon., Wed. & Fri., 9-15-10 a.m.

Miss T. Martin,
52, Bridge Street,
Macclesfield

Macclesfield M.B.
(North West District)

Macclesfield M.B.
(South East District)

The H.V.'s on rota attend the
two clinics opposite

There is also a part-time School Nurse,
Mrs. P. Swindells,
63, Byron Street,
Macclesfield

DISTRICT No. 24a

Miss L. Jacks,
Abbey Croft,
Abbey Road,
Sandbach

Sandbach U.D. (W. & N. Wards)
Bradwall
Elton

Welfare Centre, Marriott House, Sandbach
(Tel. Sandbach 309)

Tues p.m. & 1st & 3rd Tues. a.m.

Eye Clinic, Marriott House, Sandbach
2nd 3rd & 4th Mon. p.m.

Hearing Clinic, Marriott House, Sandbach
Wed. a.m.

Midwives Clinic and Preparation Class,
Alt. Fri. p.m. Marriott House, Sandbach

DISTRICT No. 24b

Miss M. E. Slack,
Castle View,
Astbury Lane Ends,
Congleton

Sandbach U. D. (E. Ward)
Arclid
Brereton

Preparation Class, Marriott House, Sandbach
Alt. Fri. p.m.

M. A. Clinic, Marriott House, Sandbach
1st & 3rd Fri. a.m.

E.N.T. Clinic, Marriott House, Sandbach
4th Fri. a.m.

Welfare Centre, Marriott House, Sandbach
Tues. p.m. & 2nd & 4th Tues. a.m.

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 25 Miss M. Corbishley, Moss Head Farm; Gawsworth, Macclesfield Miss D. Austin, 120, High Street, Talke Pits, Stoke-on-Trent, Staffs.	Congleton M.B. (Buglawton & South Wards) Moreton-cum-Alcumlow Newbold Astbury Congleton M.B. (North & West Wards)	Welfare Centre, Park Street Congleton Mon. p.m. (Tel. Congleton 2095) Ante-Natal Clinic, Park Street, Congleton Fri p.m. M.A. Clinic, Park Street, Congleton Mon. a.m. Eye Clinic, Park Street, Congleton 2nd Wed. p.m. E.N.T. Clinic, Park Street, Congleton Odd months 4th Thurs. a.m. Welfare Centre, Park Street, Congleton Mon. p.m.
DISTRICT No. 25b Miss B. Richardson, The White House, Crewe Road, Alsager, Stoke-on-Trent (Tel. Alsager 395)	Smallwood Odd Rode Church Lawton	Welfare Centre, Methodist Sunday Sunday, 1st & 3rd Wed. p.m. Mow Ccp Welfare Centre, The Institute, Rode Heath 2nd & 4th Mon. p.m. Welfare Centre, Parish Hall, Odd Rode 2nd & 4th Wed. p.m. E.N.T. Clinic, 15 Centre Court, Alsager 3rd Mon. p.m.
DISTRICT No. 26a Mrs. M. B. Batty, 14, Parrswood Court, Manchester, 20 (Tel. Didsbury 5429)	Cheadle and Gatley U.D. (Cheadle Hulme (S) and Adswood Wards)	M.A. Clinic, All Saints' Parish Room, Cheadle Wed. p.m., Hulme Welfare Centre, All Saints' Parish Room, Tues. p.m. Cheadle Hulme Welfare Centre, Mission Hall, Adswood 1st & 3rd Mon. p.m. Eye Clinic, All Saints' Parish Room, Cheadle 2nd & 3rd Thurs. a.m. Hulme E.N.T. Clinic, Brookfield, Wilmslow Rd., Even months 2nd Mon. p.m. Cheadle
DISTRICT No. 26b. Miss W. C. Heron, 83, Turves Road, Cheadle Hulme	Cheadle and Gatley U.D. (Cheadle East and West Wards)	M.A. Clinic Brookfield, Wilmslow Road Mon. a.m. Cheadle (Tel. Gatley 6290) Welfare Centre Brookfield, Wilmslow Road, Tues. p.m. & 3rd Wed. p.m. Cheadle Eye Clinic, Brookfield, Wilmslow Road, Tues. a.m. Cheadle Hearing Clinic, Brookfield, Wilmslow Road, 1st & 4th Mon. p.m. Cheadle
DISTRICT No. 26c Miss N. Hernan, 146, Edgeley Road, Cheadle Heath, Stockport	Cheadle and Gatley U.D. (Gatley Ward)	Ante-Natal Clinic, Brookfield, Wilmslow Road Fri. p.m. Cheadle Welfare Centre, Cong. Sunday School, Gatley 2nd & 4th Thurs. p.m. 3rd Wed. p.m. Preparation Class, Brookfield, Wilmslow Road 1st, 3rd and 5th Thurs p.m. Cheadle
DISTRICT 26d Miss I. C. G. Harrison, 13, Victoria Avenue, Cheadle Hulme, (Tel. Hulme Hall 933805)	Cheadle and Gatley U.D. (Cheadle Hulme (N) & Heald Green, pt. i & pt. ii, (East of Wilmslow Road) Wards)	Welfare Centre, Methodist Church, Heald 1st & 3rd Thurs. p.m. Green Welfare Centre, Brookfield, Wilmslow Rd., Tues. p.m. Cheadle Ante-Natal Clinic, Brookfield, Wilmslow Rd., Fri. p.m. Cheadle Preparation Class, Brookfield, Wilmslow 2nd & 4th Thurs. p.m. Road, Cheadle Hearing Clinic, Brookfield, Wilmslow Road, 1st & 4th Mon. p.m. Cheadle
DISTRICT No. 27a. Miss G. M. Bullough, 4, Belvoir Avenue, Hazel Grove, Nr. Stockport	Hazel Grove and Bramhall U.D. (East Ward)	Welfare Centre, 253, London Road, Hazel Tues. a.m. & p.m. Grove (Tel. Stepping Hill, 4538) Ante-Natal Clinic, 253, London Road, Hazel Wed. p.m. Grove Eye Clinic, 253, London Road, Hazel Grove 1st & 4th Thurs. a.m.
DISTRICT No. 27b. Mrs. B. E. Crosby, 27, Earle Road, Bramhall, Stockport	Hazel Grove and Bramhall U.D. (Woodford and South Wards)	Welfare Centre, Methodist Sunday School, 1st & 3rd Mon. p.m. Bramhall M.A. Clinic, 253, London Rd., Hazel Grove 2nd Tues. a.m. Immunisation Clinic, 253, London Rd., 2nd Thurs. a.m. Haze Grove Welfare Centre, 253, London Rd., Hazel Alt. Tues. a.m. Grove Hearing Clinic, 253, London Rd., Hazel Wed. a.m. Grove

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 27c.	Hazel Grove and Bramhall U.D. (North Ward)	Welfare Centre, 253, London Rd., Hazel Grove <i>Tues. p.m. & alt. Tues. a.m.</i> Hearing Clinic, 253, London Rd., Hazel Grove <i>Wed. a.m.</i> E.N.T. Clinic, 253, London Rd., Hazel Grove <i>Even manths, 3rd Thurs. a.m.</i>
DISTRICT No. 28. Miss M. R. Adamson, 47 Ovenhouse Lane, Bollington, Macclesfield	Bollington U.D. Hurdsfield Macclesfield Forest Rainow Sutton Wildboardclough Windle	Welfare Centre, Wellington Road, Bollington (Tel. Boll. 2376) <i>2nd & 4th Thurs., 1st & 3rd Wed. p.m.</i> M.A. Clinic, Wellington Road, Bollington <i>Tues. a.m.</i> Welfare Centre, Lane Ends Club, Sutton <i>2nd & 4th Wed. p.m.</i> Eye Clinic, Wellington Road, Bollington <i>2nd Tues. p.m.</i>
DISTRICT No. 29a. Miss S. Morris, 47, Greenway, Romiley, Nr. Stockport	Bredbury and Romiley U.D. (Bredbury Area)	Welfare Centre, Lower Bent's Lane, Bredbury <i>Tues. p.m.</i> M.A. Clinic, Lower Bent's Lane, Bredbury <i>Thurs. a.m.</i> (Tel. Woodley 2892) Ante-Natal Clinic, Lower Bent's Lane, Bredbury <i>Mon. p.m.</i> Eye Clinic, Lower Bent's Lane, Bredbury <i>1st & 2nd Thurs. a.m.</i> Immunisation Clinic, Lower Bent's Lane, Bredbury <i>4th Thurs. a.m.</i>
DISTRICT No. 29b Mrs. A. D. Law 5, Jubilee Street, New Mills, Stockport	Bredbury and Romiley U.D. (Romiley, Compstall and Woodley Areas)	Welfare Centre, Leyfield Avenue, Romiley <i>Thurs. p.m.</i> (Tel. Woodley 2891) Immunisation Clinic, Leyfield Ave., Romiley <i>1st Thurs. a.m.</i> Preparation Class, Leyfield Ave., Romiley <i>Mon. p.m.</i>
DISTRICT No. 29c. Miss A. Bullough, Flat 2, Aingarth, Astley Road, Stalybridge Miss E. M. O'Gara,* 212, Astley St., Dukinfield Miss D. P. Flint,* 6, Greenbank Road, Marple Bridge, Stockport Miss E. Plaiter,* 16, Lavington Ave., Cheadle, Ches.	Stalybridge M.B. (Lancashire Ward) Stalybridge M.B. (Staley Ward, excl. G.E. S.4) Stalybridge M.B. (Millbrook Ward) Stalybridge M.B. (Dukinfield Ward, Staley Ward G.E. S.4)	Welfare Centre, Mechanics' Institute, <i>Tues. & Wed. p.m.</i> Stalybridge (Tel. Stalybridge 2304) Ante and Post Natal Clinic, Mechanics Inst. <i>2nd, 3rd & 4th Thurs. p.m.</i> Stalybridge Welfare Centre, Mechanics' Institute, <i>Wed. p.m.</i> Stalybridge Hearing Clinic, Mechanics' Institute, <i>Tues. p.m.</i> Stalybridge Eye Clinic, Mechanics' Institute, Stalybridge <i>2nd, 3rd, & 4th Tues. a.m.</i> Welfare Centre, Huddersfield Rd., Millbrook, <i>Mon. p.m.</i> (Tel. Stalybridge 2544) M.A. Clinic, Huddersfield Rd., Millbrook <i>Mon. & Thurs. a.m.</i> Stalybridge Preparation Class, Huddersfield Road, <i>Wed. p.m.</i> Millbrook M.A. Clinic, Mechanics' Institute, Stalybridge <i>Mon., Wed. & Fri. a.m.</i> Welfare Centre, Mechanics' Institute, <i>Tues. p.m.</i> Stalybridge Welfare Centre, Huddersfield Rd., Millbrook, <i>Mon. p.m.</i> Stalybridge Hearing Clinic, Mechanics' Institute <i>Tues. p.m.</i> Stalybridge Ante and Post Natal Clinic, Mechanics' Institute, Stalybridge <i>2nd, 3rd & 4th Thurs. p.m.</i>
DISTRICT No. 30 Miss W. E. Beresford 11, Shaw Hall Avenue, Hyde Miss. C. Hellings, Berton Villa, Crescent Road, Dukinfield Mrs. M. Knowles, 189, Stamford Street, Stalybridge	Dukinfield M.B. (Central Ward & West Ward BB) Dukinfield M.B. (East Ward AE & AF) Dukinfield M.B. (East Ward AD and West Ward, BA)	Welfare Centre, 134, King Street, Dukinfield <i>Wed. a.m. & p.m.</i> , (Tel. Ashton 3794) M.A. Clinic, 134, King Street, Dukinfield <i>Mon., Tues., Wed. & Thurs. a.m.</i> Eye Clinic, 134, King Street, Dukinfield <i>1st, 2nd & 4th Fri. p.m.</i> E.N.T. Clinic 134, King Street, Dukinfield <i>4th Mon. p.m.</i> Preparation Class, 134, King St., Dukin- field <i>Mon. p.m.</i> Welfare Centre, King Street, Dukinfield <i>Wed. & Thurs. p.m.</i>

* These health visitors also take on rota the other clinic opposite.

	CIVIL PARISHES	CENTRES & CLINICS
DISTRICT No. 31a. Miss D. Wood, 8, Marina Drive, Rose Hill, Marple, Stockport	Longdendale U.D. Tintwistle R.D.	Welfare Centre, Wedneshaugh Green, 1st & 3rd Thurs. p.m. Hollingworth M.A. Clinic, Wedneshaugh Green, Tues. p.m. Hollingworth Welfare Centre, Christ Church School, 2nd & 4th Thurs. p.m. Tintwistle Welfare Centre, Wesleyan School, 1st & 3rd Wed. p.m. Broadbottom Immunisation Clinic, Wedneshaugh Green, 2nd Mon. p.m. Hollingworth Midwives Clinic, Wedneshaugh Green, Tues. p.m. Hollingworth
DISTRICT No. 31b. Miss F. Lonsdale,* Woodhaven, Woodend Lane, Hyde Miss M. E. Marsh* Thornbank, Mottram Road, Hyde (Tel. Hyde 2160) Mrs E. M. Lowe,* 12, Mill Lane, Hazel Grove, Nr. Stockport Miss M. Taylor,* 1, Erskine Road, Blackley, Manchester, 9 *These Health Visitors also attend on rota the other Clinic opposite.	Hyde M.B. (Godley Ward pt. i) Hyde M.B. (Newton Ward p. i) Hyde M.B. (Godley Ward pt. ii, Newton Ward pt. iii) Hyde M.B. (Werneth Ward, Newton Ward pt. ii)	Welfare Centre, Parsonage Street, Hyde Wed. p.m. (Tel. Hyde 828) Ante-Natal Clinic, Parsonage Street, Hyde Thurs. p.m. Hearing Clinic, Bayley Hall, Hyde Mon. p.m. Hearing Clinic, Bayley Hall, Hyde Mon. p.m. Welfare Centre, Bayley Hall, Hyde Tues. & Fri. p.m. (Tel. Hyde 265) Welfare Centre, Bayley Hall, Hyde Tues. p.m. Welfare Centre, Parsonage Street, Hyde Mon. & Wed. p.m. Specialist's Eye Clinic, Reform Club, Hyde 1st Tues. a.m., 3rd Fri p.m. M.A. Clinic, Reform Club, Hyde Mon., Wed. & Fri. a.m. (Tel. Hyde 2689)
DISTRICT No. 32a. Miss B. F. Sherratt, Ashdene, Leafield Road, Disley, Stockport (Tel. Disley 268)	Marple U.D. (Ludworth, Mellor & North Wards)	Welfare Centre, Stockport Road, Marple Wed. p.m. (Tel. Marple 1806) Welfare Centre, Methodist Sunday School, 2nd & 4th Thurs. p.m. Marple Bridge Welfare Centre, Methodist Sunday School, 1st & 3rd Thurs. p.m. Mellor Preparation Class, Stockport Road, Marple Fri. p.m. Hearing Clinics:— Stockport Road, Marple 1st & 4th Wed a.m. Lower Bents Lane, Bredbury 2nd Tues. a.m. Leyfield Avenue, Romiley 3rd Tues. a.m.
DISTRICT No. 32b. Miss B. Brewster, Spout House Farm, Strines, Stockport (Tel. Marple 1494)	Marple U.D. (Cent. & South Wards) Disley R.D.	Welfare Centre, Stockport Road, Marple Wed. p.m. (Tel. Marple 1806) Welfare Centre, Village Hall, High Lane, 2nd & 4th Tues. a.m. Welfare Centre, Gleneil House, Disley 1st & 3rd Tues. p.m. (Tel. Disley 62) M.A. Clinic, Stockport Road, Marple Wed. a.m. Fye Clinic, Stockport Road, Marple 3rd Thurs. a.m. Hearing Clinics:— Stockport Road, Marple 1st & 4th Weds. a.m. Lower Bents Lane, Bredbury 2nd Tues. a.m. Leyfield Avenue, Romiley 3rd Tues. a.m.
DISTRICT No. 33. Miss F. E. Kilbourn, Edendale, Buxton Road, Newtown, New Mills, Stockport	Adlington Kettleshulme Lyme Handley	Pott Shrigley Poynton
		Welfare Centre, Park Lane, Poynton (Tel. Poynton 2127) 1st & 3rd Thurs. p.m. M.A. Clinic, Park Lane, Poynton Tues. p.m. E.N.T. Clinic, Park Lane, Poynton Even months, 3rd Wed. p.m. Eye Clinic, Park Lane, Poynton 2nd Thurs. p.m. Midwives' Clinic, Park Lane, Poynton Mon. p.m.

HOME NURSES (142)

(Those marked * practise Midwifery)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Acton	Miss L. C. Jones*	The Grove, Acton, Nantwich	Nantwich	5571
Adlington	Mrs. K. A. Dawson*	Sunshine Cottage, Butley Lane, Adlington, Macclesfield	Prestbury	8360
Alderley	Mrs. E. Gornall*	Nurse's Cottage, Monksheath, Chelford, Macclesfield	Chelford Relief	216
Alderley Edge	Miss M. M. Hatton*	Holly Croft, Row of Trees, Alderley Edge, Cheshire	Alderley Edge	3364
Aldford	Mrs. D. Mellor*	Nurse's Cottage, Aldford, Chester	Aldford	37
Alsager	Mrs. E. Weatherall	25, Cresswellshawe Road, Alsager, Stoke on Trent	Alsager	67
Altrincham	Miss D. Kershaw	61, Harcourt Road, Altrincham	Altrincham	2550
	Miss W. M. Barber*	53, Oxford Road, Altrincham	Altrincham	0138
	Mrs. S. J. McGrath	1, Hawthorn Road, Hale, Altrincham	Altrincham	0906
	Miss E. Moores*	Kilrea, Market St., Altrincham	Altrincham	2051
Ashton	Mrs. I. Hall	14, Pulford Road, Sale	Sale	7445
	Miss M. McClement-Williams*	District Nurse's Home, Smithy Lanc, Mouldsworth, Chester	Manley	268
Ashton-on-Mersey	Miss B. Kitchen	13, Harcourt Road, Sale, Cheshire	Sale	5764
Astbury	Miss V. Spencer*	Black & White Cottage, Astbury, Congleton	Congleton	451
Audlem	Miss M. H. Hunter*	The Gables, Audlem, Crewe	Audlem	422
Barnston	Miss A. M. Jones*	Watmough, Pensby Road, Thingwall, Heswall, Wirral	Irby	1496
Barnton	Mrs. S. M. Dorling*	5, Cross Street, Barnton, Northwich	Northwich	4080
Barrow	Miss G. Jones*	Minniffordd, High Street, Tarvin, Chester	Tarvin	240
	Miss B. Walker	Minniffordd, High Street, Tarvin, Chester	Tarvin	240
Bebington	Mrs. A. Holesak	216, Higher Bebington Road, Higher Bebington	Mountwood	1840
	Mrs. F. E. Harrison	14, Asterfield Avenue, Higher Bebington, Wirral	Rock Ferry	2441
	Miss M. G. Griffiths	10, Kempson Terrace, Bebington	Bromborough	2480
Bickerton	Miss A. Jones*	24, Mill Grove, Bulkeley, Malpas	Cholmondeley	217
Bollington	Miss A. Barlow*	13, Waterhouse Avenue, Bollington, Macclesfield	Bollington	3179
	Mrs. M. Wood	Ingersley Vale Cottages, Bollington Macclesfield	Bollington	3204
Bramhall	Miss N. D. Entwistle*	81, Ack Lane, Bramhall, Stockport	Bramhall	2377
Bredbury	Miss D. Williams*	33, Lumb Lane, Bramhall	Bramhall	3536
	Mrs. S. A. Christmas*	9, Merton Avenue, Bredbury, Stockport	Woodley	3778
	Miss W. Watkins*	1, Barker Road, Bredbury	Woodley	3631
Bromborough	Miss F. Baughan	27, Quecnsbury Avenue, Brom- borough, Wirral	Bromborough	1037
	Mrs. A. Thompson	41, Heygarth Road, Eastham, Wirral	Eastham	1647
Buglawton	Miss M. S. Bowman*	4, High Lowe Avenue, Buglawton, Congleton	Congleton	444
Bunbury	Mrs. E. C. Hurst*	Coniston, Bunbury, Tarporley	Bunbury	367
Burton	Miss M. Jones*	Pear Tree Cottage, Burton, Neston, Wirral	Burton	230

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Castle, Northwich	Miss M. A. Higgs*	95, Cromwell Road, Winnington	Northwich	4041
Cheadle	Mrs. W. Wareing*	6, Waldon Avenue, Cheadle, Cheshire	Gatley	3904
		6, Waldon Avenue, Cheadle, Cheshire	Gatley	3904
Cheadle Hulme	Miss C. Maher*	58, Ladybridge Road, Cheadle Hulme, Stockport	Huime Hall	261
Chelford	Miss J. Hughes*	Church House, Chelford, Macclesfield	Chelford	314
Cholmondeley	Miss M. Brocklehurst*	Nurse's Cottage, Bickley Moss, Whitchurch	Cholmond- eley	268
Combermere	Miss W. A. George*	1, Council Houses, Newhall Lane, Aston, Nantwich	Aston (Nantwich)	286
Congleton	Mrs. R. Ward	24, The Westlands, Congleton	Congleton	2104
Crewe	Miss C. Moss	5, Tynedale Avenue, Crewe	Crewe	3947
	Mrs. E. Heap	225, Wheelman Road, Crewe	Crewe	3163
Daresbury	Miss G. Roberts*	Delph Cottage, Daresbury, Warrington	Moore	266
Davenham	Miss M. Buckley*	437, London Road, Davenham, Northwich	Northwich	3027
Delamere	Miss D. E. Joseph*	Wayside, Cotebrook, Tarporley	Little Budworth	391
Disley	Mrs. A. Rodger*	Grenaghan, Hollinwood Road, Disley, Stockport	Disley	298
Doddington	Miss M. A. Edwards*	2, Back Lane, Walgherton, Nantwich	Wybunbury	345
Dodleston	Mrs. M. E. Pilliner*	"Omega", Eaton Road, Eccleston	Eccleston	14
Dukinfield	Miss E. M. Ambler	212, Astley Street, Dukinfield	Ashton	1689
	Miss O. Morton	40, Jeffreys Street, Dukinfield		
Dunham Massey	Mrs. O. Chapman	35, Bucklow Avenue, Partington, Urmston, Manchester	Irlam	264
Ellesmere Port	Miss M. I. Raby	12, Thamesdale, Whitby, Wirral	E. Port	2542
	Mrs. A. Engstrom	66, Queen Street, Ellesmere Port	E. Port	2543
Farndon	Miss K. E. Hewitt*	14, Parker Drive, Farndon, Chester	Farndon	286
Frodsham	Mrs. M. Rhaney*	Wee Brae, Townfield Lane, Frodsham, Warrington	Frodsham	2386
	Mrs. C. L. Ormsby*	10, Kingsway, Frodsham	Frodsham	2109
Gawsworth	Mrs. A. Parsons*	2, Warren Grove, Gawsworth	Macclesfield	2187
Goostrey	Miss G. Magee*	Booth Bank Road, Goostrey, Crewe	Holmes Chapel	3244
Grappenhall	Mrs. D. I. Reeves	30, George's Crescent, Grappenhall, Warrington	Grappenhall	275
	Mrs. P. A. Millington	148, Knutsford Road, Grappenhall	Grappenhall	458
Great Budworth	Mrs. D. Sherratt*	Rose Bank, Marbury Lane, Comberbach, Northwich	Comberbach	279
Hale Barns	Miss M. L. Plant*	3, Golf Road, Hale, Altrincham	Altrincham	1893
Halton	Mrs. G. M. Williams*	47, Main Street, Halton, Runcorn	Runcorn	2597
Handforth	Miss M. E. Bailey*	Oak Brow Cottage, Styal, Wilmslow, Cheshire	Wilmslow	2738
Hartford				
Haslington	Mrs. C. M. Hibbert*	33, Cartwright Road, Haslington, Crewe	Crewe	2693

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Hazel Grove	Miss S. E. Ratcliffe*	62, Talbot Street, Hazel Grove	Stepping Hill 2292
	Miss W. M. Curtis*	62, Talbot Street, Hazel Grove	Stepping Hill 2292
Heald Green	Miss R. McMechan*	45, Neal Avenue, Heald Green	Gatley 8138
Helsby	Mrs. N. E. Stewart*	Thorns, Alvanley Road, Helsby Warrington	Helsby 143
Heswall	Miss C. M. Edwards*	1, Shrewsbury Road, Heswall, Wirral	Heswall 710
Higher Bebington	Mrs. M. R. Heatley	203, Teehey Lane, Bebington, Wirral	Mountwood 1126
Higher Sutton	Miss M. M. Brown*	1, Robin Crescent, Sutton, Macclesfield	Sutton 363
High Lane	Mrs. J. Banks*	Hill View, Windlehurst Road, Hawk Green, Marple	Marple 385
Hollingworth	Mrs. G. E. Hewitt	Mount House, Hollingworth, Manchester	Mottram 3210
Holmes Chapel	Miss L. B. Blunsum*	19, West Way, Holmes Chapel, Crewe	H. Chapel 2226
Hoylake	Mrs. H. M. Kay	43, Cable Road, Hoylake	Hoylake 6195
	Mrs. S. M. Scott*	19, Airlie Road, Hoylake	Hoylake 6017
Hyde	Miss G. McClean	17, Henry Street, Hyde	Hyde 2488
	Miss H. Sutton	17, Henry Street, Hyde	Hyde 2488
Ince	Mrs. E. Parker*	Park Wood, Dunham Hill, Warrington	Helsby 169
Irby	Miss G. Wotton*	Irby Hill Farm, Mill Hill Road, Irby, Heswall, Wirral	Irby 1752
Irby South	Miss M. E. Herbert*	10, Greenway, Pensby, Heswall, Wirral	Irby 1779
Knutsford	Miss D. Cadogan*	Mere Heath Lane, Mere, Knutsford	Knutsford 505
	Miss M. E. Tierney*	Flat No. 1, Westfield Drive, Knutsford	Knutsford 504
Little Leigh	Miss E. M. Fishwick*	14, Brakeley Lane, Little Leigh, Northwich	Comberbach 275
Little Sutton	Mrs. V. Sandbach	22, Glenwood Road, Little Sutton, Wirral	Hooton 2110
Lostock Gralam	Mrs. W. G. Hudson*	337, Manchester Road, Lostock Gralam, Northwich	Northwich 3046
Lymm	Miss F. M. Kneale	26, Highfield Road, Lymm, Warrington	Lymm 116
	Mrs. A. B. James	61, Star Lane, Lymm, Warrington	Lymm 399
Macclesfield	Mrs. K. M. Ashmore	50, Saville St., Macclesfield	Macclesfield 3643
	Miss M. Otter	11, Northgate Av., Macclesfield,	Macclesfield 2169
	Mrs. M. Earlam	72, Earlsway, Weston, Macclesfield	Macclesfield 4887
Malpas	Mrs. D.M.T. Brooks*	5, Springfield Road, Malpas	Malpas 96
Marple	Miss C. Turner*	19, Greenbank Crescent, Marple, Stockport	Marple 361
Marple Bridge	Miss N. Greenleaf*	The Cottage, 66, Lower Fold, Marple Bridge, Stockport	Marple 166
Marston	Mrs. E. Davies*	Brackley, Pickmere Lane, Pickmere, Knutsford	Pickmere 242
Middlewich	Miss G. M. Ahonius*	11, Coronation Road, Middlewich	Middlewich 933151

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Mobberley	Mrs. B. Horry	18, Edenfield Av., Mobberley, Knutsford	Mobberley	3132
Mossley				
Mottram	Mrs. I. M. Huyton	25, Stockport Road, Mottram, Manchester	Mottram	2183
Moulton	Miss V. R. Watts*	11, Regent Street, Moulton, Northwich	Winsford	2346
Nantwich	Miss E. Larnach*	} 20, Shrewbridge Crescent, Nantwich	Nantwich	65294
	Miss M. Mansfield*		Nantwich	65294
Neston	Miss D. Price*	Gorston, Sandy Lane, Little Neston	Neston	1185
Norley	Miss I. E. Belsham*	Nurse's Bungalow, Crabmill Lane, Norley, Warrington	Kingsley	265
Odd Rode	Miss H. Barry*	2, Drenfell Road, Scholar Green, Stoke-on-Trent	Kidsgrove	2929
Poynton	Miss A. Cheetham*	82, Barnaby Road, Poynton, Stockport	Poynton	2137
Prestbury		7, Bollinside, Prestbury Macclesfield	Prestbury	8464
Rainow	Miss A. K. Keates*	Oakwood, Chapel Lane, Rainow, Macclesfield	Bollington	2184
Romiley		9, Windsor Grove, Romiley	Marple	534
Rudheath				
Runcorn	Mrs. E. Booth	54, Heath Road South, Weston, Runcorn	Runcorn	2342
	Mrs. F. Fowles	26, Hazel Avenue, Runcorn	Runcorn	2849
	Mrs. J. E. Livesey	8, Lynden Grove, Runcorn	Runcorn	3260
Sale	Mrs. J. R. Flood	22, George's Road, Sale	Sale	7033
	Mrs. W. F. Raad	18, Clarendon Crescent, Sale	Sale	6135
	Mrs. R. Adams	34, Oulton Avenue, Sale	Sale	8453
Sandbach		5, Elworth Street, Sandbach	Sandbach	256
		5, Elworth Street, Sandbach	Sandbach	256
Sandiway	Miss E. Whaite*	The Cottage, Glebe Road, Cuddington, Northwich	Sandiway	2252
Saughall	Miss D. Phillips*	9, Lodge Lane, Saughall, Chester	Saughall	200
Shavington	Mrs. E. N. Feather	21, Edwards Avenue, Shavington	Crewe	7234
Stalybridge	Mrs. E. H. Slater	295, Huddersfield Road, Stalybridge	Stalybridge	2448
	Miss G. E. Rand	27, Copley Avenue, Stalybridge	Stalybridge	3188
Stapeley	Miss E. Reilly*	41, London Road, Stapeley, Nantwich	Nantwich	5570
Stockton Heath	Miss H. M. Davies	68, Mill Lane, Stockton Heath, Warrington	St'k'on Heath	1489
	Mrs. O. Saunders	12, Worsley Road, Walton, Warrington	St'k'on Heath	896
Stretton	Miss G. Meredith*	3, Beverley Avenue, Appleton, Warrington	St'k'on Heath	573
Tarporley	Mrs. M. Stewart*	99, High Street, Tarporley	Tarporley	153
Tattenhall	Miss D. M. Simpson*	76, Tattenhall Road, Tattenhall	Tattenhall	387
Tilston	Miss N. Priest*	Fern Lea, Tilston, Malpas	Tilston	249
Timperley	Miss M. B. McGrath	34, Keswick Road, Broomwood Estate, Timperley, Altrincham	Ringway	2912
		26, Grove Lane, Timperley	Ringway	3495

HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Upton	Mrs. E. C. Iball	73, Upton Drive, Upton-by-Chester	Chester	27897
Vicars Cross and Huntington	Mrs. R. I. Croome	40, Vicars Cross, Chester	Chester	35533
Weaverham	Mrs. H. Dudley*	55, Northwich Road, Weaverham, Northwich	Weaverham	3160
	Mrs. E. L. L. Hampson*	Sunfield, Forest Road, Cuddington, Northwich.	Sandiway	2163
West Kirby	Miss J. Howes	27, Burlingham Avenue, Grange, West Kirby, Wirral	Hoylelake	1203
Wheelock	Miss E. E. Gerrard*	647, Crewe Road, Wheelock, Sandbach	Sandbach	281
Willaston (Wirral)	Miss G. Lloyd*	The Grey Cottage, Hooton Road, Willaston, Wirral	Willaston	2112
Willington	Mrs. M. S. Vickers*	9, Carter Avenue, Kelsall, Chester	Kelsall	286
Wilmslow	Miss E. B. Grindrod*	23, Kings Close, Wilmslow, Cheshire	Wilmslow	5525
	Miss M. K. Ward*	17, Bourne Street, Wilmslow Cheshire	Wilmslow	2615
	Miss A. M. Garry*	17, Bourne Street, Wilmslow, Cheshire	Wilmslow	2615
	Miss F. Marsden*	1, Prescott Road, Lacey Green Estate, Wilmslow, Cheshire	Wilmslow	5577
Winnington	Miss A. Wright*	2, Dyar Terrace, Winnington	Northwich	4529
Winsford	Miss E. Foster*	92, Weaver Street, Winsford	Winsford	2228
	Miss P. M. Jones*	92, Weaver Street, Winsford	Winsford	2228
	Miss I. A. Bremner*	20+ Ways Green, Winsford	Winsford	2548
Wistaston	Mrs. H. M. Hearn	34, Elm Close, Wistaston	Crewe	2431
Witton	Mrs. I. Owen	Dinastre, Lime Av., Leftwich, Northwich	Northwich	3093
Worleston	Mrs. R. E. Fort*	Laundry Cottage, Rookery Park, Worleston, Nantwich	Nantwich	65941
Northwich Area	Mr. W. Hudson	337, Manchester Road, Lostock Gralam, Northwich	Northwich	3046

Part-time and Relief Nurses

Mrs. B. Baker	79, Townfield Lane, Bebington	Rock Ferry	5341
Mrs. I. Bennett	55, Gorseyville Road, Bebington	Mountwood	3108
Mrs. M. M. Brocklehurst*	Sidmere, Dale Brow, Prestbury, Macclesfield	Prestbury	8811
Mrs. M. L. Buckley*	7, Ascol Drive, Plumley, Knutsford	Northwich	2626
Mrs. G. M. Bull	102, Picton Avenue, Runcorn	Runcorn	2628
Miss D. L. Carlisle*	7b, Madison Avenue, Cheadle Hulme		
Mrs. M. Chesters	23, Davenport Avenue, Crewe	Crewe	2131
Mrs. E. Clarke*	12, Brookside Avenue, Poynton, Stockport	Poynton	2506
Mrs. M. A. Clarke	131, Knott Lane, Hyde	Hyde	1803
Mrs. B. Collier	2, Beech Avenue, Rosehill, Marple, Stockport		
Mrs. A. L. Davies	22, Chestnut Avenue, Shavington, Crewe		
Mrs. D. Davison*	26, Cornelius Drive, Pensby, Heswall, Wirral	Irby	1639
Mrs. D. M. Edwards	Yew Tree House, Liverpool Road, Neston, Wirral	Neston	2017

Relief (contd.)

Mrs. M. E. Evans	30, Bedford Road, Macclesfield	Macclesfield	3331
Mrs. J. Fell	3, Long Hey, Hale, Altrincham	Ringway	2491
Mrs. P. M. Flitcroft	165, Wellington Road South, Stockport		
Mrs. A. E. Groucott	14a, Church Lane, Ashton-on- Mersey, Sale	Sale	4212
Mrs. I. M. Hitchinson	20, Barrymore Road, Owley Wood, Weaverham, Northwich	Weaverham	3261
Mrs. D. E. Hyde	65, Thamesdale, Whitby, Ellesmere Port		
Mrs. H. M. Jackson	44, Cheadle Road, Cheadle Hulme	Hulme Hall	423
Mrs. H. M. Johnson	21, Fir Tree Drive, Newton, Hyde		
Mrs. J. Jones	12 Forest Road, Heswall, Wirral	Heswall	1180
Mr. B. G. Lamacraft	12, Albert Road, Wilmslow	Wilmslow	2900
Mrs. D. Macrae	42, Greenway, Greasby, Wirral		
Mrs. E. A. Manion	90, Chester Road, Grappenhall, Warrington	Grappenhall	759
Mrs. F. Massey	1, Woodsome Drive, Whitby, Ellesmere Port	Ellesmere Port	2437
Mrs. R. D. Miller	16, Arnold Avenue, Gee Cross, Hyde		
Mrs. E. M. Morris	8, Meadow Cottages, Congleton		
Miss E. Riall*	26, Nursery Avenue, Hale, Altrincham	Altrincham	2706
Mrs. M. G. Rolls*	Moor Green, Highgate Road, Hayfield, Stockport	New Mills	3369
Mrs. J. Roome*	26, Thorneyholme Drive, Knutsford	Knutsford	141
Mrs. M. J. Sibbitt	18, Linda Drive, Hazel Grove	Stepping Hill	1185
Mrs. W. F. Stenning	1, Hillcrest Drive, Little Sutton		
Mrs. V. E. Stewart	Clare Mount, The Rock, Helsby	Helsby	327

COUNTY MIDWIVES

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Alsager	Mrs. E. L. Pedley (33)	6, Audley Road, Alsager, Stoke-on-Trent	Alsager 583
Altrincham	Mrs. A. Warburton (40)	220 Manchester Road, Broadheath, Altrincham	Altrincham 1484
	Miss M. E. Cassidy (41)	26, Grove Lane, Timperley, Altrincham	Ringway 3495
Bebington	Miss A. K. Morgan (4)	Staniland, Spital Road, Bebington	Bromborough 2707
	Mrs. C. R. Green (5)	152, Town Lane, Bebington	Mountwood 1747
	Mrs. N. I. Blundell (6)	84, Thorburn Road, New Ferry	Rock Ferry 4621
	Mrs. E. A. Kinealy (7)	15, Stretton Close, Eastham	Eastham 2022
Bredbury	Miss M. M. Leigh (57)	13, George Lane, Bredbury, Stockport	Woodley 2754
	Miss M. E. Morris (57a)	13, George Lane, Bredbury, Stockport	Woodley 2754
Cheadle	Miss A. Gray (49)	2, Alder Road, Cheadle	Gatley 5759
	Miss D. R. Ricketts (49a)	22, Vicarage Avenue, Cheadle Hulme, Stockport	Hulme Hall 1777
Congleton	Mrs. M. Williams (46)	115, Woolston Av., Congleton	Congleton 690
	Miss D. H. Wright (47)	Ewanrigg, Giantswood Lane, Congleton	Congleton 240
Crewe	Miss E. A. Bimson (27)	20, Gatefield St., Crewe	Crewe 2239
	Miss D. Broad (28)	234 Hungerford Road, Crewe	Crewe 2495
	Miss K. V. Yearsdon (29)	199, Edleston Road, Crewe	Crewe 3701
	Mrs. E. Weston (30)	19, Nelson Street, Crewe	Crewe 3110
	Mrs. M. Parkinson (31a)	32, Brook Street, Crewe	Crewe 3317
Dukinfield	Miss A. Lees (62)	41, Armadale Road, Dukinfield	Ashton 1073
	Miss L. Bradley (63)	24, Morar Road, Dukinfield	Ashton 4261
Ellesmere Port	Miss E. Bowyer (9)	210, Sutton Way, Ellesmere Port, Wirral	Ellesmere Port 2964
	Mrs. M. H. Bendell (10)	Lyndale, 6, Palm Grove, Sunny Haven Estate, Whitby, Ellesmere Port	Ellesmere Port 1982
	Mrs. V.E. Corson (11)	40, Wilkinson Street, Ellesmere Port	Ellesmere Port 3146
	Mrs. E. Evans (12)	85, Grace Road, Ellesmere Port	Ellesmere Port 1188
	Miss N. Evans (13)	2, Woodchurch Lane, Ellesmere Port	Ellesmere Port 2351
Grappenhall	Miss O. M. Heath (21)	10, Cedar Avenue, Stockton Heath, Warrington	Stockton Heath 1265
Hale			
Hazel Grove	Miss F. W. Hampson (50)	335, London Road, Hazel Grove, Stockport	Stepping Hill 3131
Hollingworth	Mrs. B. Glen (66)	6, Claylands Close, Hollingworth, Manchester	Mottram 3313
Hoylake and	Miss Mona Williams (1)	1, Trinity Road, Hoylake, Wirral	Hoylake 3084
West Kirby	Mrs. E. Jemmett (2)	58, Gresford Avenue, West Kirby, Wirral	Hoylake 1552
Hyde	Mrs. P. Boote (64)	27, Gloucester Road, Hyde	Hyde 1005
	Mrs. J. H. Jones (65)	82, Knott Lane, Hyde	Hyde 1914
	Miss M. Cootc (66a)	48, Barley Croft Road, Newton, Hyde	Hyde 1161

COUNTY MIDWIVES (contd.)

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Lymm	Miss J. Pike (34)	21, The Crescent, Lymm, Warrington	Lymm 725
Macclesfield	Mrs. B. J. Whittaker (52)	27, Cottage Street, Macclesfield	Macclesfield 3766
	Miss F. A. Scrivens (53)	11, Northgate Avenue, Macclesfield	Macclesfield 2169
	Mrs. A. Watson (54)	66, Byrons Lane, Macclesfield	Macclesfield 4455
	Miss E. Fairclough (55)	19, Nicholson Avenue, Macclesfield	Macclesfield 3322
	Mrs. D. Tomlinson (56)	Gledfield, 29, Gawsworth Road, Macclesfield	Macclesfield 2073
	Mrs. L. McHattie (56a)	8, Tytherington Drive, Macclesfield	Macclesfield 5565
Neston	Miss E. Lythgoe (8)	4, Waterford Drive, Little Neston, Wirral	Neston 1626
Northwich	Mrs. W. A. Place (24)	55, Old Hall Road, Leftwich, Northwich	Northwich 3050
Partington	Miss H. Lawrie (43)	37, Bucklow Avenue, Partington, Urmston, Manchester	Irlam 2274
Runcorn	Miss E. M. Grice (17a)	40, Norman Road, Runcorn	Runcorn 3602
	Miss E. Edwards (18)	40, Norman Road, Runcorn	Runcorn 3602
	Miss P. Noon (19)	73, Oxford Road, Runcorn	Runcorn 2881
	Mrs. P. Farrell (17)	134, Heath Road South, Weston, Runcorn	Runcorn 3707
Sale	Mrs. I. E. Thompson (36)	6, Lansdowne Road, Sale, Cheshire	Sale 1140
	Mrs. D. Lindley (38)	65, Derbyshire Road South, Sale	Sale 4383
Sandbach	Miss M. Beatty (45)	5, Coronation Crescent, Sandbach	Sandbach 731
Salybridge	Miss H. Sowerbutts (58)	21, Shakespeare Avenue, Millbrook Salybridge	Salybridge 2151
	Miss N. Robinson (59)	6, Acres Lane, Salybridge	Salybridge 2821
	Mrs. F. Dent (60)	16, Ash Grove, Salybridge	Salybridge 2281
Stockton Heath	Mrs. J. M. Arthur (22)	15, Southern Street, Stockton Heath	Stockton Heath 74
Upton and Vicar's Cross	Mrs. E. McAllister (15)	73, Green Lane, Vicar's Cross, Chester	Chester 35637
	Miss I. B. Jones (16)	18, Bache Avenue, Liverpool Road, Chester	Chester 21097
Weaverham	Miss J. Wolahan (23)	49, Wallerscote Road, Weaver- ham, Northwich	Weaverham 2116

COUNTY DENTAL NURSES (4)

Mrs. D. Comyn	Spring Villa, Upton Park, Chester.
Miss H. Howarth	700, Borough Road, Birkenhead
Mrs. M. A. Ramsbottom	26, Siddall Road, Bramhall, Stockport
Miss G. Rees	46, George's Crescent, Grappenhall, Warrington.

COUNTY DENTAL ATTENDANTS (21)

Mrs. Y. Attwood	141, Marple Road, Offerton, Nr. Stockport
Miss W. M. Ashton	9, Gorse Hill Road, Heswall, Wirral
Miss M. Aspden	16, Jenny Lane, Woodford, Bramhall, Stockport
Mrs. J. B. Barlow	19, Boscombe Drive, Hazel Grove, Nr. Stockport
Miss J. Bartley	27, Tarvin Road, Chester.
Mrs. E. I. Cooke	250, Birch Lane, Dukinfield
Miss S. Cope	Broad Lane, Stapeley, Nantwich
Mrs. M. Cowsill	61, Hale Road, Hale, Altrincham
Miss D. Fcllowes	14, Rosslyn Drive, Moreton, Wirral
Mrs. L. Holland	3, School Drive, Barnton, Northwich
Miss A. E. House	22, Devonshire Park Road, Stockport
Miss B. Jennings	1, Bodafon Villas, Whitchurch Road, Chester
Miss A. Kealey	The Ley, Winnington, Northwich.
Miss E. C. Kelly	9, Earney Strcet, Altrincham
Miss B. Lawrence	233, Chester Road, Hartford, Northwich, Cheshire
Mrs. L. P. Rees	86, Bond Street, Macclesfield.
Mrs. M. S. Robinson	45, Upton Drive, The Bache, Chester
Miss G. B. Shore	Heath Lea, Bunbury, Tarporley
Miss D. Smith	30, Willow Grove, Hoole, Chester.
Miss B. Young	10, Clarendon Road, Audenshaw, Lincs.

AUTHORISED OFFICERS FOR MENTAL HEALTH

District	Name	Office	Residence
Wirral	(a) E. M. Harbrow	218, Bebington Road, Bebington (Tel. Rock Ferry 1155)	239, Greenbank Road, West Kirby (Tel. Hoylake 3071).
	(b) Mrs. C. Ledsome	218, Bebington Road, Bebington (Tel. Rock Ferry 1155)	15, Brimstage Avenue, Higher Bebington (Tel. Mountwood 1991)
West	F. H. Mills	55, Hoole Road, Chester (Tel. Chester 22299)	Northwood, Millfields, Nantwich (Tel. Nantwich 65545)
Runcorn	H. Holden	District Offices Waterloo Road, Runcorn (Tel. Runcorn 2608)	54, Victoria Road, Runcorn (Tel. Runcorn 3747)
Mid-Cheshire	E. Platt	Brunner Guildhall, High Street, Winsford (Tel. Winsford 3346)	Kensyd, Delamere Street, Winsford (Tel. Winsford 3352)
Crewe & Nantwich	R. E. Broach	1, Gatefield Street, Crewe (Tel. Crewe 2478)	180, Crewe Road, Alsager (Tel. Alsager 174)
Altrincham & Sale	W. H. Driver	1, Claremont Road, Sale (Tel. Sale 2305)	32, Sefton Road, Sale (Tel. Sale 3408).
Bucklow & Wilmslow	R. Dixon	Bexton Road, Knutsford (Tel. Knutsford 506)	18, Stanley Road, Knutsford (Tel. Knutsford 506).
Macclesfield & Congleton	L. W. Lyon	11-13 Church Street, Macclesfield (Tel. Macclesfield 4908)	Ainsdale, Gawsworth Road, Maccles- field (Tel. Macclesfield 2976).
North-East	C. G. Owens	District Offices, 59b, Shaw Heath, Stockport (Tel. Stockport 4422)	Coniston, Goyt Crescent, Brinnington, Stockport (Tel. Stockport 3145).
Hyde & Stalybridge	J. Thompson	28, Pickford Lane, Dukinfield (Tel. Ashton 1128)	28, Pickford Lane, Dukinfield (Tel. Ashton 1128).

DAY NURSERIES

Altrincham M.B.	1, Gaskell Road (Tel. Altrincham 3621). <i>Matron</i> —Mrs. W. Helliwell
Bebington M.B.	The Bradmoor, Bromborough (Tel. Brom- <i>Matron</i> —Mrs. F. G. Davies borough 1381)
Congleton M.B.	Bradshaw House, Lawton Street (Tel. Congleton <i>Matron</i> —Mrs. H. E. Knight 282).
Dukinfield M.B.	Dewsnap Lane (Tel. Ashton-u-Lyne 3136). <i>Matron</i> —Mrs. C. J. Bell
Ellesmere Port M.B.	Whitby Road (Tel. Ellesmere Port 1357). <i>Matron</i> —Mrs. R. F. Chroston
Macclesfield M.B.	South Park, Poplar Road (Tel. Macclesfield 3751) <i>Matron</i> —Mrs. M. Dean 1, Glegg Street (Tel. Macclesfield 2813). <i>Matron</i> —Mrs. E. Roberts Nicholson Avenue, Hurdsfield (Tel. Maccles- <i>Matron</i> —Mrs. L. Potts field 4225)
Sale M.B.	Harley Road (Tel. Sale 4627). <i>Matron</i> —Mrs. E. Howitt
Bollington U.D.	Buntings Field, Wellington Road (Tel. Boling- <i>Matron</i> —Mrs. J. Davey ton 3294).
Bredbury & Romiley U.D.	Highfield Park Road, Bredbury (Tel. Woodley <i>Matron</i> —Mrs. E. Grice 2817).
Hazel Grove & Bramhall U.D.	Queen's Road, Hazel Grove (Tel. Stepping Hill <i>Matron</i> —Miss F. H. Dunn 2048)
Runcorn U.D.	Okell Street (Tel. Runcorn 2461). <i>Matron</i> —Mrs. M. Jones

WRENBURY HALL TUBERCULOSIS REHABILITATION CENTRE

Consultant Physician—A. Fleming, M.B., Ch.B., D.P.H.

Warden and Manager—L. T. Burton

MOTHERS' AND BABIES' HOME

Prospect House, 7, Trinity Road, Hoylake (Tel. Hoylake 1054).

Matron—Miss R. A. Barton

OCCUPATION CENTRES

Rigby Memorial School, Navigation Road, Altrincham.
(Tel. Altrincham 4977).

Supervisor—Mrs. D. M. Platt

Methodist Sunday School, Stockport Road, Gee Cross, Hyde (Tel. Hyde 1408)

Supervisor—Mrs. M. Coombes

33 Great King Street, Macclesfield (Tel. Macclesfield 3407)

Supervisor—Mrs. M. Cheadle

Methodist Sunday School, Hospital Street, Nantwich (Tel. Nantwich 65378)

Supervisor—Mrs. M. Hayes

St. Mark's School, School Lane, Grove Street, New Ferry
(Tel. Rock Ferry 1548)

Supervisor—Miss I. J. Young

CENTRAL OFFICE

County Hall, Chester (Tel. Chester 24678)

REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1957

Section I.-Area and Population

Area

The acreage of the County at the end of 1957 was 621,825 acres.

Population

The population of the Administrative County, as constituted 1/4/57 and enumerated at the Census of 1951, was 815,884. The estimate of the Registrar-General for mid-1957 was 861,800.

Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/57 was £9,814,345. A penny rate over the whole County for 1957-58 represented the sum of £39,530 (estimated.)

Health Service Premises

No major works were commenced or completed in the above year, but many minor adaptations and improvements have been carried out at various buildings, and the normal programme of maintenance work has continued. A few additional pre-fabricated garages have been erected at Nurses' houses.

Section II.-Births and Deaths

The figures are for the Administrative County, 1957, unless otherwise stated.

Live Births :—

	Total.	Male	Female
Legitimate — — —	13055	6652	6403
Illegitimate — — —	419	218	201

Birth Rate per 1,000 of the estimated resident population, 15.6.

	Total.	Male	Female
Stillbirths — — —	314	163	151

Stillbirths Rate per 1,000 total (live and still) births, 22.8.

	Total.	Male	Female
Deaths — — —	10251	5175	5076

Death Rate per 1,000 of population, 11.9.

The principal causes of death were as follows:—

Disease.	No. of Deaths.	Rate per million population.
Heart Disease — — —	3359	3898
Malignant Diseases — — —	1752	2033
Vascular lesions of nervous system — — —	1665	1932
Pneumonia — — —	385	447
Tuberculosis (all forms) — — —	83	96
Pulmonary — — —	72	83
Non-Pulmonary — — —	11	13
Nephritis — — —	90	104
Bronchitis — — —	459	533
Ulcer of Stomach and Duodenum	88	102

The deaths from the chief zymotic diseases were as follows :

Disease.	No. of Deaths.	Rate per million population.
Diphtheria — — —	—	—
Whooping Cough — — —	3	3.5
Measles — — —	1	1.2
Gastritis, Diarrhoea and Enteritis	50	58.0

The zymotic Death Rate was 0.06 per 1,000.

The table below shows the trends in the causation of death at all ages since 1949.

Causes of Death 1949-1957 (all ages)

		1957	1956	1955	1954	1953	1952	1951	1950	1949
T.B.—Respiratory		72	98	75	96	93	124	149	165	222
—Other		11	8	15	17	11	22	32	30	44
Diphtheria		—	—	—	—	—	—	—	1	4
Whooping Cough		3	3	3	—	3	3	6	6	5
Measles		1	1	2	4	5	1	6	5	8
Malig. Stom.	M	166	151	151	169	180	167	154	171	168
	F	129	131	137	114	138	122	147	104	108
Lung Bronc.	M	310	288	274	268	208	179	197	154	—
	F	49	52	44	35	52	36	25	36	—
Breast		149	166	167	154	156	172	161	174	155
Uterus		77	82	78	78	86	85	66	82	69
Others	M	465	442	442	425	404	414	466	472	—
	F	407	410	410	399	378	378	369	335	—
Leukaemia		28	43	39	47	43	32	38	30	—
Diabetes		43	56	63	60	55	63	69	87	70
Vasc. Nervous Syst.	M	648	669	701	671	588	628	614	551	—
	F	1017	1,039	913	938	859	855	892	743	—
Coronary	M	964	1,053	918	904	816	789	793	717	—
	F	596	548	497	430	415	441	427	370	—
Influenza		134	55	75	26	100	34	367	76	123
Pneumonia		385	340	334	296	261	291	462	234	274
Bronchitis		459	534	487	505	490	457	612	527	478
Peptic Ulcer		88	92	116	101	91	101	77	68	87
Nephritis		90	105	104	124	117	137	134	160	221
Motor Accidents		108	101	105	99	90	91	78	106	86
Other Accidents		215	205	183	202	178	159	170	158	—
Suicide	M	58	64	41	54	53	59	48	57	53
	F	51	41	40	51	26	29	38	35	29

Deaths in Middle Life.

It had previously been noticed in these reports that whereas the deaths of females between the ages of 45 and 64 had decreased quite considerably during the last 30 years, deaths of males within the same age group had not diminished in the same proportion, and in fact the male death rate between these ages has remained almost stationary since 1920. The result is that the percentage of male deaths amongst the total number of deaths for the year between these ages has become very much greater than those of females, as shown in the following table.

Table (i):—Deaths in successive years between ages of 45 and 64.

Year	Pop. of Cheshire	Deaths of persons aged 45-64	Death rate per 1000 pop. ages 45-64	Males	Females	% male deaths in total	% female deaths in total	No. male deaths divided by No. female deaths
1920	625,137	1750	2.80	927	823	52.9	47.1	1.13
1925	645,900	1968	3.03	1066	902	54.3	45.7	1.18
1930	677,100	2055	3.04	1113	942	54.2	45.8	1.18
1935	702,200	2163	3.08	1165	998	53.9	46.1	1.17
1936	709,092	2289	3.23	1274	1015	55.6	44.4	1.25
1937	721,100	2422	3.36	1332	1090	55.0	45.0	1.22
1938	729,400	2315	3.16	1204	1111	52.0	48.0	1.08
1939	738,400	2332	3.16	1287	1045	55.2	44.8	1.23
1940	767,770	2756	3.59	1594	1162	57.8	42.2	1.37
1941	774,410	2482	3.21	1382	1100	55.7	44.3	1.26
1942	757,900	2168	2.86	1181	987	54.5	45.5	1.20
1943	740,930	2255	3.04	1237	1018	54.9	45.1	1.22
1944	736,980	2218	3.01	1223	995	55.1	44.9	1.23
1945	733,370	2339	3.19	1319	1020	56.4	43.6	1.29
1946	768,510	2315	3.02	1347	968	58.2	41.6	1.39
1947	778,230	2203	2.82	1305	898	59.2	40.8	1.45
1948	795,590	2112	2.65	1216	896	57.6	42.4	1.36
1949	801,790	2155	2.69	1252	903	58.1	41.9	1.39
1950	819,720	2244	2.74	1330	914	59.3	40.7	1.46
1951	822,800	2462	2.99	1492	970	60.6	39.4	1.54
1952	826,300	2225	2.69	1346	879	60.5	39.5	1.53
1953	831,700	2270	2.73	1369	941	60.3	39.7	1.52
1954	831,400	2305	2.77	1393	912	60.4	39.6	1.53
1955	840,200	2288	2.80	1393	895	60.9	39.1	1.56
1956	850,400	2492	2.93	1555	937	62.4	37.6	1.66
1957	861,800	2389	2.77	1500	889	62.8	37.2	1.69

These figures refer to civilian population only, and show a constantly rising proportion of males to females, with four noticeable jumps in 1936, 1946, 1951 and 1956. The jump in 1946 was obviously at least partially due to the return of many men to civilian life with a correspondingly increased number of male deaths.

Over a period of approximately $2\frac{1}{2}$ years, the particulars of persons dying between the ages of 45 and 64 have been extracted from the returns of the Registrars of Births, Marriages and Deaths.

Particulars of 6,101 deceased persons have been obtained in this way. Deaths were divided into five main categories:— those from coronary disease, from cancer of the lungs, bronchi and pleurae, from other cancers, from cerebral haemorrhage, thrombosis and embolism, and from other causes with the following result:—

Table (ii):—Classification of causes of death according to sex

	Deaths between 45 and 64					
	Coronary disease	Cancer of lung	Other cancers	Cerebral haemorrhages	Other causes	Total
Males	1067	415	543	393	1390	3808
Females	273	56	688	413	863	2293
Total	1340	471	1231	806	2253	6101
Ratio $\frac{\text{Males}}{\text{Females}}$	3.91	7.41	0.79	0.95	1.61	1.66

Using the Classification of Occupations issued by the General Register Office, the deaths of males were then classified into the occupational groups. Group III was, however, divided into three sections, (a) Clerks, Shop Assistants, etc., (b) foremen and charge-hands, (c) manual workers.

Table (iii):—Classification of deaths according to occupational groups

Occupational Group	Deaths aged 45 to 64 (males only)					Total
	Coronary disease	Cancer of lungs etc.	Other cancers	Cerebral haemorrhages	Other causes	
I (professional etc.)	94	19	31	21	77	242
II (managers, farmers, shopkeepers etc.)	222	63	89	78	227	679
III (a) (clerks)	174	46	64	59	186	529
III(b) (foremen, charge-hands etc.)	76	30	43	20	66	235
III (c) (skilled industrial workers)	226	104	137	97	336	900
IV (semi skilled workers)	107	78	87	47	189	508
V (labourers)	140	71	69	58	253	591
Not stated	28	4	23	13	56	124
Totals	1067	415	543	393	1390	3808

At the time of the 1951 census the percentages in Cheshire of employed males (over 16 years of age) in the several occupational groups was—Group I, 4.1%; Group II, 17.1%; Group III, 51.4%; Group IV, 13.6% and Group V, 13.8%.

Table (iv):—Causes of death expressed as percentages of the total number of deaths taking place in the several occupational groups

Occupation Group	Coronary disease	Cancer of lungs	Other cancers	Cerebral haemorrhage	Other causes
I (242 deaths)	38·8%	7·9%	12·8%	8·6%	31·8%
II (679 deaths)	32·7%	9·3%	13·1%	11·5%	33·4%
III (a) clerks, etc. (529 deaths)	32·9%	8·7%	12·1%	11·2%	35·1%
III (b) foremen, etc. (235 deaths)	32·3%	12·8%	18·3%	8·5%	28·1%
III (c) skilled manual workers (900 deaths)	25·1%	11·6%	15·2%	10·8%	37·3%
IV (508 deaths)	21·1%	15·4%	17·1%	9·2%	37·2%
V (591 deaths)	23·7%	12·0%	11·7%	9·8%	42·8%
Total deaths all groups (3684)	28·2%	11·2%	14·1%	10·3%	36·2%

The foregoing table shows clearly the higher proportion of male deaths from coronary disease in occupational groups I (professional etc.) and to a lesser degree in Group II, and clerks and foremen (included in group III) over manual workers. Deaths from lung cancer were highest amongst manual workers (skilled workmen and foremen sub-groups) and particularly in IV (semi-skilled workmen).

Table (v):—Percentages of males in various occupational groups dying from the several causes of death

	Group I	Group II	Group III			Group IV	Group V	Group not stated	Total
			(a) clerks etc.	(b) foremen etc	(c) manual workers				
Coronary disease (1067 deaths)	8·8%	20·8%	16·3%	7·1%	21·2%	10·0%	13·1%	2·6%	100%
Cancer of lungs (415 deaths)	4·6%	15·2%	11·1%	7·2%	25·1%	18·8%	17·1%	1·0%	100%
Other cancers (543 deaths)	5·7%	16·4%	11·8%	7·9%	25·2%	16·0%	12·7%	4·2%	100%
Cerebral haemorrhages, etc. (393 deaths)	5·3%	19·9%	15·0%	5·1%	24·7%	12·0%	14·8%	3·3%	100%
Other causes (1390 deaths)	5·5%	16·3%	13·4%	4·7%	24·2%	13·6%	18·2%	4·0%	100%

Since, however, the numbers of males are so different in the several occupational groups, the picture becomes clearer if the comparison is made with reference to the same number of males in each group. The total number of males whose deaths are being investigated (omitting those whose occupational group is unknown) is 3684, so that the mean for each of the seven occupational groups used is 526. In the following table the figure obtained when this mean is divided by the number of deaths in each occupational group is used as a comparability factor:—

Table (vi):—Deaths from various causes in each occupational group standardised by use of a comparability factor.

Mean number of deaths for each occupational group:—526.

Occupational Group	I	II	III(a)	III(b)	III(c)	IV	V
Total deaths in each group	242	679	529	235	900	508	591
Comparability factor	2.17	0.77	0.99	2.24	0.58	1.04	0.89
Coronary disease	204	171	172	170	131	111	125
Cancer of lung	41	49	46	67	60	81	63
Other cancer	67	69	63	96	79	90	61
Cerebral haemorrhage	46	60	58	45	56	49	52
Other causes	167	175	184	148	195	197	225

The following table gives the deaths from coronary disease and angina pectoris for the years 1950 to 1957. The Registrar General first issued statistics for coronary disease as a separate cause of death in 1950.

Table (vii):—Deaths from coronary thrombosis in middle life

Year	Total deaths aged 45—64	Deaths from coronary disease ages 45—64	Percentage
1950	2244	339	15.1%
1951	2464	416	16.9%
1952	2225	372	16.7%
1953	2270	401	17.7%
1954	2305	455	19.7%
1955	2288	407	17.8%
1956	2492	558	22.4%
1957	2389	474	19.9%

Observations

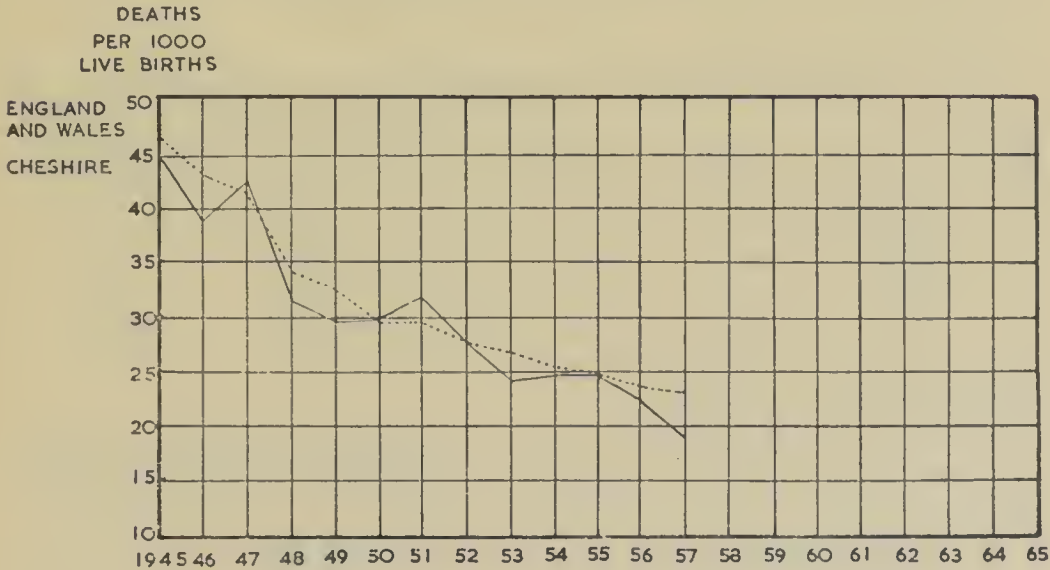
- (i) The percentage of male deaths amongst persons dying in later middle life is now almost 63%.
- (ii) This percentage has risen steadily throughout the last twenty years and is still rising.
- (iii) Two causes of death, coronary thrombosis and lung cancer, account for approximately three-quarters of this excess of deaths amongst males.
- (iv) Almost four times as many males die from coronary thrombosis in late middle life as females, and more than seven times the number of males as females die from lung cancer in that age group.
- (v) Coronary thrombosis is by far the commonest single cause of death amongst males at these ages and accounts for approximately two-sevenths of male deaths between 45 and 64.
- (vi) A greater proportion of males in the occupational groups I and II, and of foremen and clerical, etc. workers in group III, die from coronary thrombosis than in the other occupational groups.
- (vii) The proportion of deaths from coronary thrombosis is increasing year by year.

Infantile Mortality:—

	Under 1 year	Under 4 weeks
Deaths of Infants in the Administrative County during 1957	253	169
Legitimate	240	157
Illegitimate	13	12
All Infants per 1,000 live births	18.8	12.5
Legitimate Infants per 1,000 legitimate live births	18.4	12.0
Illegitimate Infants per 1,000 illegitimate live births	31.0	28.6

The figures for deaths under one year in recent years are shown in the following diagram :—

INFANTILE MORTALITY



Deaths from Puerperal Causes :—

	Deaths.	Rate per 1,000 total (live and still) births.
Pregnancy, Childbirth, Abortion	7	0.50

Section III.-Vaccination and Immunisation

Under Section 26 of the National Health Service Act, 1946, the County Council has the duty of making available a full service of vaccination against smallpox and of immunisation against diphtheria; the organisation and management of the scheme has been devolved upon the Divisional Health Committees. Immunisation is also provided against whooping cough.

It is hoped that the attention now devoted to Health Services in general, and to this aspect in particular, will result in a considerable increase in vaccination, just as it has served to secure a wide response to the offer of immunisation. Immunisation is, in practice, meant for children, with particular attention to those under 5, but vaccination may on occasion be sought by persons of any age, and a recent amendment of the County Scheme has provided for this.

Arrangements made under the Council's scheme include participation by general practitioners and sessions at clinics.

Smallpox Vaccination

During the year 1957, the number of persons vaccinated was as follows:—

	<i>Vaccinated</i>	<i>Re-Vaccinated</i>
Under 1 year	5419	4
Age 1 year	813	1
Age 2—4 years	361	52
Age 5—14	364	201
Age 15 years and over	516	1282

Diphtheria Immunisation

During the same period the number of children notified as having completed a full course of primary immunisation against diphtheria was as follows:—

Children under 1 year	4438
Children 1—4 years	2665
Children 5—14 years	430

Total 7533

Total number of children who were
given a secondary or reinforcing
injection

4637

It is unfortunate that not all immunisations carried out are notified to the Local Health Authority and the above figures are therefore not complete.

The number of children at 31st December, 1957, who had completed a full course of immunisation against diphtheria at any time before that date was as follows:—

		<i>Last complete course of injections (whether primary or booster)</i>	
<i>Born in Year</i>		1953—57	1952 or earlier
1957	.....	2524	—
1953—56	.....	30357	—
1948—52	.....	29565	23482
1943—47	.....	13846	34488
<hr/>		<hr/>	<hr/>
Totals	1943—57	76292	57970
<hr/>		<hr/>	<hr/>

The estimated mid-year child population for the year 1957 was as follows:—

Under 1 year	.....	12800
1—4 years	.....	48800
5—14 years	.....	132400
<hr/>		<hr/>
Total under 15 years	.....	194000
<hr/>		<hr/>

Whooping Cough Immunisation

During the year 1957 the number of children who completed a full course of immunisation against whooping cough was as follows:—

Under 1 year	.....	5353
Age 1—4 years	.....	3765
Age 5—14 years	.....	545
<hr/>		<hr/>
Total		9663
<hr/>		<hr/>

Poliomyelitis Vaccination

The scheme was further extended in March, 1956 to include vaccination or immunisation against any other disease authorised by the Minister of Health. Approval was given by the Minister to the vaccination of children against poliomyelitis.

When the vaccination of children against poliomyelitis started in 1956 only children in the 1947-54 age group were registered for vaccination, but in May, 1957, the registration of children born in 1955 and 1956 was permitted. Further extension of the scheme was notified in November, 1957, when the registration started of children born in 1943 to 1946 and in 1957 and over six months of age, expectant mothers, general practitioners and their families, ambulance service staffs and their families and families of hospital staffs. To provide for the large increase in the number requesting vaccination it was necessary for the

Government to import Salk Vaccine manufactured in Canada and the United States to supplement the British Vaccines.

Statistics relating to the scheme in 1957 were as follows:—

(a) Children in 1943/57 age group awaiting vaccination at 31/12/57	.....	.....	.....	.....	.....	.....	19,321
(b) Number of children vaccinated in 1957	.....	.....	.....	.....	.....	.....	35,505
(c) Of those in (b), number receiving two injections	.....	.....	.....	.....	.....	.....	27,297
(d) Number of children receiving two injections from start of scheme to 31/12/57	.....	.....	.....	.....	.....	.....	31,176

Section IV.-Ambulance Service

The County Council is charged with the duty, under Section 27 of the National Health Service Act, 1946, to provide a comprehensive ambulance service throughout the County, free of charge to persons carried; the duty includes transport by car of persons who are unfit for public transport but do not need to be recumbent. The service is one which has been devolved for organisation and management within the approved estimates to Divisional Health Committees through-out the County. On and from 1st October, 1957, the use of ambulance service vehicles was permitted, when reasonably possible, for stand-by duty at gatherings and for the transport of sick or disabled persons when necessary but not covered by Section 27. Charges are made for these services under the National Health Service (Amendment) Act, 1957.

Arrangements are made to pay for the agency use of some Red Cross and St. John vehicles. In addition, there is a supplementary arrangement with the Voluntary Car service which, originally organised during the war, had been continued and paid for up to 5/7/48 by hospital authorities. Taxis and hired cars are also used as a supplementary service.

During 1957, delivery was taken of six Bedford Lomas ambulances, and thirteen Bedford Lomas Sitting case ambulances.

The arrangements by which the County Boroughs of Chester, Stockport, and Warrington, and the Counties of Shropshire and Derbyshire provided an Ambulance Service in particular areas, or for special purposes, were continued, as was the arrangement whereby the County Borough of Liverpool and the County of Lancashire convey smallpox patients or others needing special disinfection. On the other hand Cheshire supplies the night-time service for the Glossop area of Derbyshire.

For long distance journeys, use is made of the service provided by the Railway Executive for invalids, which comprises, for a small fee, a reserved compartment without payment of fares other than for the persons actually travelling. There are special arrangements for casual use, at an agreed fee, of other Authorities' ambulances, either at the far end of such a railway journey, or to meet special emergencies, and help is similarly given to other ambulance authorities.

The whole-time ambulance staff now approved consists of the following:—

Supervisors.....	11
Senior Drivers and Mechanics	15
Driver Attendants	165
Others	2

The following schedule shews the work done by the service for the financial year 1957—8:—

ITEM (1)	Directly Provided Service (2)				Supplementary Service (including Hospital Car Service). (3)				Transport by Rail (4)
	Amb.	S.C.A.	S.C.C.	Total	Amb.	S.C.A.	S.C.C.	Total	
1. No. of persons carried (excluding relatives, escorts and friends)									
(a) Section 27 patients									
(i) Accident or Emergency	11,590	3,249	69	14,908	154	269	—	423	—
(ii) Others	78,234	98,425	17,450	194,109	1,026	5,053	5,013	11,092	101
(iii) Total of (i) and (ii)	89,824	101,674	17,519	209,017	1,180	5,322	5,013	11,515	101
(b) Other persons, e.g. persons taken to day nurseries, welfare institutions, occupational centres, L.H.A. clinics, special schools, etc.	1,576	3,817	567	5,960	—	—	17	17	—
(c) Grand total i.e. (a) (iii) and (b)	91,400	105,491	18,086	214,977	1,180	5,322	5,030	11,532	101
2. No. of journeys by vehicles									
(a) Patient carrying journeys	36,012	33,565	4,222	73,799	342	1,697	3,465	5,504	—
(b) Abortive and service journeys	847	589	165	1,601	3	14	8	25	—
(c) Journeys for transport of analgesia apparatus, midwives, home nurses, etc.	233	453	191	877	—	—	—	—	—
(d) Total of (a) (b) and (c)	37,092	34,607	4,578	76,277	345	1,711	3,473	5,529	—
3. Total mileage (incl. that in respect of 1 (b))	640,527	753,160	150,542	1,544,229	9,267	50,266	73,782	133,315	12,967

No. of operational vehicles on establishment at 31st March, 1958:—

Population of service area 858,760*

Acceage of service area 619,617*

No. of ambulance stations—

Directly provided service 17

Ambulances 41

Sitting case vehicles 45

*Excludes Disley R.D. served wholly by Derbyshire C.C.

Section V.-Prevention of Illness, Care and After-care

General

Section 28 of the National Health Service Act, 1946, gives permissive powers to the County Council to make a scheme for prevention of illness, and for the care and after-care of persons suffering from illness. The County Council has a duty to make detailed arrangements for any disease the Ministry may specify. In this connexion, tuberculosis has been so specified, and much of the work, other than clinic and institutional provision, which was carried out for many years under the County Tuberculosis Scheme, is being continued under the new powers.

The arrangements under this section of the Act are among those which for organisation and management, within the approved estimates, have been devolved to Divisional Health Committees.

Tuberculosis

Consultant Chest Physicians, the main part of whose work at chest clinics passed to the Regional Hospital Boards on the appointed day, are part-time officers of the County Council, and give Divisional Medical Officers all necessary advice in the sphere of care and after-care; Health Visitors pay home visits to tuberculosis patients and help to secure the attendance of contacts at the clinics. The loan of large items such as garden shelters and the supply of smaller items such as sputum flasks, now form part of the general scheme for the provision of nursing equipment, of which details are given later.

Wrenbury Hall Industrial Training Colony has continued under the full ownership and control of the County Council. During the year 1957, some 9 Cheshire trainees were admitted for industrial rehabilitation, and 6 from other local authorities. There are at present 27 colonists living in the hostels, of whom 7 are married, and 5 married colonists living with their families in cottages on the estate.

The following tables will enable a comparison to be made between 1957 and previous years in respect of the incidence of, and mortality due to, tuberculosis.

Tuberculosis Statistics

	1957	1956	1955
New cases notified (primary)			
Pulmonary	374	392	431
New cases notified (primary)			
Non-pulmonary	61	68	74
Total	<u>435</u>	<u>460</u>	<u>505</u>

No. of cases remaining on Registers of Notifications kept by District M.O's.H., December 31st	5559	5392	5247
No. of Deaths from all forms of Tuberculosis	83	106	90
Death-rate from all forms of Tuberculosis per 1,000 of the population	0.10	0.12	0.11

Table relating to Tuberculosis in children under 16 :—

Year	Number of Children notified as suffering from Pulmonary Tuberculosis	Number of Children notified as suffering from Non- Pulmonary Tuberculosis	Percentage of Total Notifications	
			Pulmonary	Non- Pulmonary
1948	24	101	5.4	63.9
1949	21	73	4.8	59.3
1950	24	59	5.2	48.8
1951	30	63	6.9	55.3
1952	56	62	12.5	52.1
1953	55	45	12.7	55.6
1954	46	54	12.4	62.1
1955	45	38	10.4	51.3
1956	40	30	10.2	44.1
1957	18	26	4.8	42.6

Table showing primary notifications and deaths from Tuberculosis during past 30 years:—

Year	Primary notifications	Deaths	Death rate per 1,000 population
1928	932	499	.74
1929	917	465	.69
1930	838	438	.64
1931	802	438	.64
1932	751	460	.66
1933	754	389	.57
1934	765	377	.54
1935	739	367	.52
1936	752	348	.49
1937	799	373	.52
1938	802	360	.49
1939	709	358	.48
1940	674	403	.52
1941	740	402	.52
1942	713	302	.40
1943	685	339	.46
1944	734	332	.45
1945	669	302	.41
1946	510	310	.40
1947	655	296	.38
1948	601	279	.35
1949	565	266	.33
1950	582	195	.24
1951	546	181	.22
1952	568	146	.18
1953	514	104	.12
1954	458	113	.13
1955	505	90	.11
1956	460	106	.12
1957	435	83	.10

The 1957 deaths are made up as follows :—

	Male	Female	Total
Pulmonary	59	13	72
Non-Pulmonary	5	6	11
	<hr/> 64	<hr/> 19	<hr/> 83

Death Rates, 1957—

All forms .10 per 1000 of population

Pulmonary .08 per 1000 of population

Non-Pulmonary .02 per 1000 of population

Contacts.

During the year 1957, approximately 3,258 contacts of tuberculous patients were examined by Chest Physicians, with the co-operation of the health visitors, who visited their homes whenever necessary. Particulars were sent as usual to the Physicians of all tuberculosis deaths (whether of notified or unnotified cases) to assist in arrangements for contact examination.

Mass Miniature Radiography

During 1957 the following surveys by Mass Miniature Radiography Units were completed:—

Liverpool Unit—

Malpas and Tattenhall	1st and 2nd June
Runcorn and Frodsham	7th October to 31st December

Manchester Unit—

Hyde	2nd January to 25th February
Dukinfield	10th May to 11th June
Stalybridge	19th June to 16th July
Holmes Chapel	17th to 24th July
Middlewich	11th to 24th September
Winsford	2nd to 15th October
Congleton	16th October to 13th November

The opportunity was taken during these visits to arrange for the nursing, teaching, and children's department staff in the districts concerned to be examined on a voluntary basis. Mantoux positive children tested for B.C.G. Vaccination were also examined.

The following table gives the number of examinations made and details of the abnormalities detected:—

	<i>Malpas and Tatten- hall</i>	<i>Runcorn and Frodsham</i>	<i>Hyde</i>	<i>Dukin- field</i>	<i>Staly- bridge</i>	<i>Holmes Chapel</i>	<i>Middle- wich</i>	<i>Wins- ford</i>	<i>Congle- ton</i>
No. of miniature examinations	688	7,757	10,830	3,940	6,510	1,390	2,350	2,410	5,500
Total number of abnormalities detected	12	30	250	96	182	32	47	56	117
Type of abnormalities detected:—									
(a) active tuberculosis	2	4	20	13	16	3	4	4	10
(b) inactive tuberculosis	1	13	127	34	78	17	15	15	46
(c) bronchiectasis	3	7	24	14	18	4	2	6	15
(d) cardiac abnormalities	6	5	21	15	22	3	6	10	11
(e) other conditions	—	1	58	20	48	5	20	21	35

*Summary of Notifications during the period from the 1st
January, 1957, to the 31st December, 1957.*

PART I.

FORMAL NOTIFICATIONS

	Number of Primary Notifications of new cases of tuberculosis														
Age Periods	0-	1-	2-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	Total (all ages)	
Respiratory, Males	—	—	1	5	4	15	28	41	36	46	35	22	3	236	
„ Females	2	—	1	2	3	15	26	38	29	11	7	4	—	138	
Non-respiratory, Males	—	1	—	4	4	4	—	3	1	2	2	1	1	23	
„ Females	—	1	2	6	8	7	4	5	2		1	—	—	38	

PART II.—New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

Source of Information	Number of cases in age Groups													Total		
	0—	1—	2—	5—	10—	15—	20—	25—	35—	45—	55—	65—	75—			
Death Returns from Local Registrars—	Respiratory	M	—	—	—	—	—	—	1	—	3	3	4	—	11 (A)	
		F	—	—	—	—	—	—	—	—	1	—	2	1	4 (B)	
	Non-Respiratory	M	—	—	—	—	—	—	—	—	—	—	—	—	— (C)	
		F	—	—	—	—	—	—	—	—	—	—	—	1	1 (D)	
Death Returns from Registrar-General (Transferable deaths)	Respiratory	M	—	—	—	—	—	—	—	1	1	1	1	—	4 (A)	
		F	—	—	—	—	—	—	—	2	1	—	—	—	3 (B)	
	Non-Respiratory	M	1	—	—	1	—	—	—	1	—	—	—	—	4 (C)	
		F	—	—	—	—	—	—	—	—	—	—	—	—	— (D)	
Posthumous Notifications	Respiratory	M	—	—	—	—	—	—	—	—	—	—	—	—	— (A)	
		F	—	—	—	—	—	—	—	—	—	—	—	—	— (B)	
	Non-Respiratory	M	—	—	—	—	—	—	—	—	—	—	—	—	— (C)	
		F	—	—	—	—	—	—	—	—	—	—	—	—	— (D)	
Totals															(A)	15
															(B)	7
															(C)	4
															(D)	1

B.C.G.

The County Council's proposals under Section 28 of the National Health Service Act, 1946, for B.C.G. vaccination of contacts of tuberculous persons were approved by the Minister on 24th October, 1949. They provided for B.C.G. vaccination, by and at the instance of a physician with specialist knowledge and experience of tuberculosis, of contacts of patients suffering from tuberculosis, such contacts being found by medical tests to be capable of receiving protection from tuberculosis as a result of B.C.G. vaccination. In May, 1954 approval was given by the Ministry of Health to the Scheme being extended to provide for the B.C.G. Vaccination of children between 13 and 14 years of age.

In the first place those physicians with specialist knowledge and experience of tuberculosis were the chest physicians employed by the Regional Hospital Board, towards whose salary the County Council pays a specified proportion. All Divisional Medical Officers and four Assistant County Medical Officers have now received instruction in the technique and methods of B.C.G. vaccination and have been approved for this purpose.

During 1957, the chest physicians vaccinated 698 cases, and the Divisional Medical Officers vaccinated 181 cases, under the contact scheme. In addition to these, 278 new-born infants were vaccinated.

Divisional Medical Officers and Assistant County Medical Officers vaccinated 4751 school children during the year and details of the work carried out under the scheme for school children are as follows:—

Before B.C.G. Vaccination

No. of consent forms issued	.....	.....	.....	.....	9398
No. of children for whom consents received	.....	.....	.....	.....	6998
No. of patch tests by tuberculin jelly	.....	.....	.....	.....	2633
No. positive to patch test	.....	.....	.....	.....	574
No. Mantoux tested	.....	.....	.....	.....	5450
No. positive to Mantoux test	.....	.....	.....	.....	1122
No. Negative to ,, ,,	.....	.....	.....	.....	4206
<i>No. Vaccinated by B.C.G.</i>	.....	.....	.....	.....	4751

After B.C.G. Vaccination

No. having follow-up Mantoux (8 weeks)	.....	.....	.....	.....	3313
No. positive to follow-up Mantoux (8 weeks)	.....	.....	.....	.....	3131
No. negative to follow-up	.....	.....	.....	.....	98
No. having follow-up Mantoux (12 months)	.....	.....	.....	.....	3493
No. positive to follow-up Mantoux (12 months)	.....	.....	.....	.....	3195
No. negative to follow-up	.....	.....	.....	.....	81
No. re-vaccinated	.....	.....	.....	.....	32

Mental Illness

The care and supervision of patients at home suffering from mental illness or defect is carried out by Health Visitors and Authorised Officers, and arrangements are made, in suitable cases, for help to be given by other County services, such as Home Nursing and Domestic Help.

Other Illnesses

Liaison has been continued with the Almoners and other appropriate officials of general hospitals so that discharged patients requiring help from any of the County Health Services may secure it without delay.

Another aspect of "care" is the investigation of "problem families" with a view to effecting any possible improvement and granting any appropriate help.

An important aspect of "prevention of illness" is health education, and appropriate publicity under this heading is carried out locally.

The County Health Committee has joined the Manchester Committee on Cancer with respect to the whole of that part of Cheshire which lies within the area of the Manchester Regional Hospital Board. Special publicity in County Clinic Centres and by means of Health Visitors has been given to the prevention of home accidents.

Nursing Equipment

Stocks of nursing equipment are held by District Nurses and by Divisional Medical Officers for loan to patients needing them, subject to a small deposit charge, and a weekly hire payment in the case of the more expensive items. Examples of the small items normally kept by District Nurses are urinals, hot water bottles, bed pans, feeding cups, sputum flasks, steam kettles, air rings and back rests; the larger items stored by the Divisional Medical Officers include crutches, bath chairs, spinal carriages and water beds.

Shelters for the use of tuberculosis patients are issued by the County Medical Officer and transferred by the County Surveyor's Department, in accordance with recommendations made by the Chest Physicians, and confirmed, after investigation of the site, by the Divisional Medical Officer. Bedding is also kept for issue in special cases, *e.g.*, when a patient's small stock has to be taken away for disinfection or disinfestation, or to provide for house isolation of patients.

Recuperative Convalescence

During the year 1957, 52 patients were sent for recuperative convalescence for periods varying between two and eight weeks. Contributions were paid by the patients towards the cost of this convalescence in accordance with the County scale. Also under Section 28, seven mentally defective children were found accommodation for short periods during the year,

Sitters-In

Facilities exist to supplement, in specially approved cases, the Domestic Help service by means of night sitters-in. In 1957 sitters-in were provided for eleven cases.

Infectious Disease

In order that Divisional Health Committees may have a continuous picture of the incidence of infectious disease in their areas, Divisional Offices receive full particulars of notified cases, and the County Council repays to District Councils, in accordance with the National Health Service Act, the notification fees paid to doctors. The following table gives the number of cases notified under the various headings during the year 1957.

	Scarlet Fever	Whooping Cough	Acute Poliomyelitis Paralytic	Acute Poliomyelitis Non-Paralytic	Measles (excluding Rubella)	Diphtheria	Acute Pneumonia	Dysentery	Smallpox	Acute Encephalitis Infective
Altrincham M.B.	32	46	—	—	670	—	25	2	—	—
Bebington M.B.	42	155	8	2	535	—	31	43	—	—
Congleton M.B.	21	—	—	—	157	—	16	1	—	—
Crewe M.B.	92	50	2	—	242	—	1	23	—	1
Dukinfield M.B.	2	12	—	—	184	—	7	85	—	—
Ellesmere Port M.B.	4	66	2	1	1218	—	32	17	—	2
Hyde M.B.	61	68	—	—	475	—	5	268	—	—
Macclesfield M.B.	64	33	1	—	455	—	36	8	—	—
Sale M.B.	20	26	1	—	331	—	6	7	—	—
Stalybridge M.B.	4	30	1	—	298	—	13	230	—	—
Alderley Edge U.D.	—	1	—	—	23	—	2	—	—	—
Alsager U.D.	—	25	—	—	216	—	4	1	—	—
Bollington U.D.	2	4	—	—	14	—	—	—	—	—
Bowdon U.D.	1	8	—	—	57	—	3	—	—	—
Bred. and Rom. U.D.	13	10	—	—	194	—	4	—	—	—
Cheadle and Gatley U.D.	11	13	4	—	136	—	8	—	—	—
Hale U.D.	1	5	—	—	173	—	4	—	—	—
Hazel Grove and Bramhall U.D.	13	9	—	—	268	—	1	34	—	—
Hoylake U.D.	26	95	—	—	306	—	4	—	—	—
Knutsford U.D.	1	7	—	—	100	—	—	—	—	—
Longdendale U.D.	—	—	—	—	59	—	—	7	—	—
Lymm U.D.	—	—	—	—	4	—	—	—	—	—
Marple U.D.	3	4	3	—	377	—	1	2	—	—
Middlewich U.D.	3	—	1	—	1	—	—	—	—	—
Nantwich U.D.	21	9	—	—	246	—	2	20	—	—
Neston U.D.	—	31	—	—	96	2	6	—	—	—
Northwich U.D.	4	14	1	—	259	—	13	—	—	—
Runcorn U.D.	13	9	—	—	221	—	13	2	—	—
Sandbach U.D.	7	5	1	—	50	—	2	1	—	—
Wilmslow U.D.	9	10	—	—	180	—	2	23	—	—
Winsford U.D.	—	—	—	—	129	—	—	—	—	—
Wirral U.D.	4	17	2	—	135	—	6	21	—	—
Bucklow R.D.	1	1	1	—	57	—	5	3	—	—
Chester R.D.	3	34	—	—	227	—	25	2	—	—
Congleton R.D.	7	17	1	—	203	—	17	8	—	—
Disley R.D.	—	3	—	—	60	—	—	—	—	—
Macclesfield R.D.	12	50	—	—	371	—	13	1	—	—
Nantwich R.D.	30	69	—	—	337	—	17	25	—	—
Northwich R.D.	11	16	2	—	1014	—	26	—	—	—
Runcorn R.D.	20	45	1	—	867	—	13	—	—	—
Tarvin R.D.	3	49	—	—	90	—	11	—	—	—
Tintwistle R.D.	—	—	—	—	13	—	—	2	—	—
TOTAL	561	1046	32	3	11048	2	374	836	—	3

	Acute Encephalitis Post Infectious	Enteric or Typhoid Fever	Paratyphoid Fever	Erysipelas	Meningococcal Infection	Food Poisoning	Tuberculosis Respiratory	Tuberculosis Meninges and C.N.S.	Tuberculosis Other	Puerperal Pyrexia	Ophthalmia Neonatorum
Altrincham M.B.	—	1	—	—	—	2	7	—	2	1	—
Bebington M.B.	2	1	1	6	3	9	35	—	2	1	—
Congleton M.B.	—	—	—	2	—	1	15	—	1	—	—
Crewe M.B.	1	—	—	—	—	1	17	—	5	—	—
Dukinfield M.B.	—	—	4	—	—	1	22	—	1	—	—
Ellesmere Port M.B.	—	—	—	4	—	9	10	—	4	3	—
Hyde M.B.	—	—	—	3	—	2	26	—	2	—	—
Macclesfield M.B.	1	—	—	6	2	1	11	—	3	19	1
Sale M.B.	—	—	—	—	—	1	19	—	2	2	—
Stalybridge M.B.	1	—	—	—	1	8	20	1	1	—	—
Alderley Edge U.D.	—	—	—	—	—	—	3	—	—	—	—
Alsager U.D.	—	—	—	—	—	—	—	—	1	—	—
Bollington U.D.	—	—	—	—	—	—	—	—	—	—	—
Bowdon U.D.	—	—	—	—	—	—	—	—	—	—	—
Bred. and Rom. U.D.	—	—	—	—	1	—	5	—	—	1	—
Cheadle and Gatley U.D.	—	—	—	1	—	—	9	—	1	1	—
Hale U.D.	—	—	—	—	—	47	1	—	2	—	—
Hazel Grove and Branhall U.D.	—	—	—	—	—	7	8	1	1	—	—
Hoylake U.D.	—	—	—	3	—	1	14	1	3	1	—
Knutsford U.D.	—	—	—	—	—	2	4	—	1	—	—
Longdendale U.D.	—	—	—	—	—	—	4	—	1	—	—
Lymm U.D.	—	—	—	—	—	—	1	—	—	—	—
Marple U.D.	—	—	—	2	—	—	10	—	—	3	—
Middlewich U.D.	—	—	—	—	—	—	3	—	1	—	—
Nantwich U.D.	—	—	—	—	—	—	3	—	1	4	—
Neston U.D.	—	—	1	—	1	—	3	—	—	—	—
Northwich U.D.	—	—	—	1	—	—	7	—	2	—	—
Runcorn U.D.	—	—	—	1	—	—	8	—	1	—	—
Sandbach U.D.	—	—	—	—	—	—	5	—	1	—	—
Wilmslow U.D.	—	—	—	—	—	1	14	—	1	—	—
Winsford U.D.	—	—	—	—	—	—	8	—	—	—	—
Wirral U.D.	—	—	—	—	—	—	12	—	1	—	—
Bucklow R.D.	—	—	—	—	1	—	1	—	—	1	—
Chester R.D.	—	—	—	1	—	7	17	—	1	—	—
Congleton R.D.	—	—	—	—	—	3	6	—	1	1	—
Disley R.D.	—	—	—	—	—	—	—	—	—	—	—
Macclesfield R.D.	1	—	—	1	1	—	7	1	—	—	—
Nantwich R.D.	—	—	—	—	—	—	5	—	7	2	—
Northwich R.D.	—	—	—	2	1	2	11	—	2	1	—
Runcorn R.D.	—	—	—	—	—	1	16	—	3	1	1
Tarvin R.D.	—	—	—	2	—	—	7	—	2	—	—
Tintwistle R.D.	—	—	—	—	—	1	—	—	—	—	—
TOTAL	6	2	6	35	11	107	374	4	57	42	2

The following Table shows the variation in notifications of the principal Infectious Diseases during the past ten years:—

Notifications	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948
Measles	11048	3218	10450	6361	7537	9594	9491	6512	6589	6741
Scarlet Fever	561	733	688	1033	1232	1223	1007	1666	1695	1228
Whooping Cough	1046	1877	1210	1368	3080	2420	2144	2824	2216	2936
Poliomyelitis	35	131	57	29	53	41	40	83	99	30
Diphtheria	2	0	0	1	6	1	8	15	35	86
Smallpox	0	0	0	0	0	0	0	0	0	0
Tuberculosis:—										
Pulmonary, all ages	374	392	431	393	433	449	432	461	442	443
Non-pulmonary, all ages	61	68	74	87	81	119	114	121	123	158
Pulmonary, Children under 15	18	40	45	46	55	56	30	24	21	24
Non-pulmonary, Children under 15	26	30	38	54	45	62	63	59	73	101

Section VI.-Mothers and Young Children Health Visiting, etc.

General

The County Council's responsibilities under Sections 22 and 24 of the National Health Service Act, 1946, are in the main a continuation of work which has been done for many years, though the Health Visitors' services are now used to carry out the Council's schemes for mental health, after-care, and handicapped persons.

Number of Health Visitors employed—31.12.1957	—	—	—	110
Equivalent whole-time H.V. Services provided	—	—	—	77

Number of visits paid by Health Visitors during the year.

Number of children under 5 years of age	—	—	—	—	66,162
Expectant Mothers—					
First Visits	—	—	—	—	4,137
Total Visits	—	—	—	—	7,083
Children under one year of age—					
First Visits	—	—	—	—	13,876
Total Visits	—	—	—	—	90,208
Children aged 1 and under 2 years—					
Total Visits	—	—	—	—	45,529
Children aged 2 but under 5 years—					
Total Visits	—	—	—	—	74,751
Tuberculosis Households—					
Total Visits	—	—	—	—	7,124
Other cases—					
Total visits	—	—	—	—	25,964
Total number of households or families visited	—	—	—	—	65,329

Premature Infants

Particular attention is devoted to babies weighing $5\frac{1}{2}$ lbs. or less at birth, and special cots with bedding, hot water bottles, etc., are kept in readiness. 852 premature live babies were born in the year under review, whose mothers normally live in the Authority's area, 183 at home and 669 in hospitals or nursing homes.

Puerperal Pyrexia

42 cases of Puerperal Pyrexia were notified during the year, 10 being domiciliary and 32 institutional confinements.

Maternal Mortality

The maternal mortality for 1957, *i.e.*, number of deaths due to pregnancy, childbirth or abortion, per 1,000 live and still births, was 0.51.

Ante-Natal and Post-Natal Clinics

The number of Ante-Natal clinics conducted by Doctors was 19. The Regional Hospital Boards pay for a proportion of the sessions attended by specialist obstetricians. In some areas there are other doctors' clinics, and in some districts midwives' clinics have been established.

The following Tables give particulars of County clinics held during 1957:—

Doctors' Clinics

	Sessions	ANTE-NATAL		POST-NATAL*	
		Attend- ances	New Cases	Attend- ances	New Cases
Bredbury — — — — —	48	378	144	—	—
Cheadle — — — — —	50	1645	326	1	—
Congleton — — — — —	50	535	105	3	—
Ellesmere Port — — — — —	102	2003	293	112	86
Hazel Grove — — — — —	51	860	243	—	—
Heswall — — — — —	51	700	84	56	—
Hoylake — — — — —	52	959	168	91	—
Hyde† — — — — —	50	995	182	1	—
Little Sutton — — — — —	48	581	70	35	35
Macclesfield Bridge Street	23	394	135	—	—
Hursfield House — — — — —	12	265	88	—	—
Sanders Square — — — — —	12	173	62	—	—
Neston — — — — —	49	545	62	42	—
New Ferry — — — — —	99	838	132	38	11
Northwich — — — — —	48	515	312	10	4
Runcorn — — — — —	50	622	175	—	—
Sale — — — — —	51	1021	198	21	19
Stalybridge — — — — —	24	182	31	41	26
Timperley† — — — — —	24	245	73	1	—
Totals	906	13456	2903	452	181

† Non-Specialist.

* At joint ante- and post-natal sessions.

Midwives Clinics

					ANTE-NATAL		
					Sessions	Attendances	New Cases
Bollington	1957-1958	1958-1959	1959-1960	1960-1961	51	295	57
Bredbury	1957-1958	1958-1959	1959-1960	1960-1961	48	390	63
Cheadle	1957-1958	1958-1959	1959-1960	1960-1961	51	401	114
Crewe							
Ludford Street	1957-1958	1958-1959	1959-1960	1960-1961	61	741	147
Stalbridge Road	1957-1958	1958-1959	1959-1960	1960-1961	51	325	50
Dukinfield	1957-1958	1958-1959	1959-1960	1960-1961	49	791	110
Hollingworth	1957-1958	1958-1959	1959-1960	1960-1961	52	100	14
Hoylake	1957-1958	1958-1959	1959-1960	1960-1961	51	130	45
Little Sutton	1957-1958	1958-1959	1959-1960	1960-1961	46	236	42
Lymm	1957-1958	1958-1959	1959-1960	1960-1961	52	162	36
Macclefield Hurdfield House*	1957-1958	1958-1959	1959-1960	1960-1961	25	132	26
Sanders Square*	1957-1958	1958-1959	1959-1960	1960-1961	32	244	61
Marple*	1957-1958	1958-1959	1959-1960	1960-1961	49	382	82
Nantwich	1957-1958	1958-1959	1959-1960	1960-1961	49	217	41
Neston	1957-1958	1958-1959	1959-1960	1960-1961	22	109	25
Poynton	1957-1958	1958-1959	1959-1960	1960-1961	47	626	88
Sandbach	1957-1958	1958-1959	1959-1960	1960-1961	50	325	51
Stalybridge (Millbrook)	1957-1958	1958-1959	1959-1960	1960-1961	45	325	67
Stockton Heath	1957-1958	1958-1959	1959-1960	1960-1961	51	271	55
Weaverham	1957-1958	1958-1959	1959-1960	1960-1961	48	333	50
Winsford	1957-1958	1958-1959	1959-1960	1960-1961	50	270	47
* Started in 1957					980	6805	1271
Totals							

Preparation Classes

					ANTE-NATAL		
					Sessions	Attendances	New Cases
Alsager	1957-1958	1958-1959	1959-1960	1960-1961	25	107	15
Cheadle	1957-1958	1958-1959	1959-1960	1960-1961	49	980	150
Crewe Stalbridge Road*	1957-1958	1958-1959	1959-1960	1960-1961	31	400	63
Dukinfield	1957-1958	1958-1959	1959-1960	1960-1961	48	558	101
Hazel Grove	1957-1958	1958-1959	1959-1960	1960-1961	48	608	—
Heswall	1957-1958	1958-1959	1959-1960	1960-1961	48	607	105
Hoylake	1957-1958	1958-1959	1959-1960	1960-1961	49	1054	130
Hyde	1957-1958	1958-1959	1959-1960	1960-1961	49	701	127
Little Sutton	1957-1958	1958-1959	1959-1960	1960-1961	50	776	145
Macclefield Hurdfield House*	1957-1958	1958-1959	1959-1960	1960-1961	31	323	46
Sanders Square*	1957-1958	1958-1959	1959-1960	1960-1961	32	235	45
Marple*	1957-1958	1958-1959	1959-1960	1960-1961	17	102	17
Nantwich*	1957-1958	1958-1959	1959-1960	1960-1961	35	311	55
Neston	1957-1958	1958-1959	1959-1960	1960-1961	41	343	32
Northwich	1957-1958	1958-1959	1959-1960	1960-1961	46	606	122
Romiley	1957-1958	1958-1959	1959-1960	1960-1961	46	475	71
Sale	1957-1958	1958-1959	1959-1960	1960-1961	50	340	63
Sandbach	1957-1958	1958-1959	1959-1960	1960-1961	50	582	62
Stalybridge	1957-1958	1958-1959	1959-1960	1960-1961	48	199	35
Stockton Heath	1957-1958	1958-1959	1959-1960	1960-1961	23	159	25
Winsford*	1957-1958	1958-1959	1959-1960	1960-1961	13	102	10
* Started in 1957					829	9768	1419
Totals							

Notification of Births

The distribution of the births to Cheshire mothers notified under the Public Health Act, 1936, was as follows :—

Domiciliary
4420

Nursing Homes
312

Hospitals
8726

Dental Care

Increasing importance is now attached to the provision of Dental services for expectant and nursing mothers, and for young children. Facilities will be extended as opportunity offers, subject to the availability of necessary staff.

DENTAL REPORT

Mothers and young children are dealt with during School Dental clinic sessions.

All necessary treatment is carried out, if necessary with local or general anaesthetic.

All dentures are set up by a mechanic, and impressions and fittings carried out by the dental surgeon.

Two clinics possess X-Ray apparatus, and for other clinics arrangements are made with the local hospital.

The following details show the work done during the year 1957:—

1957	Expectant Mothers	Nursing Mothers	Children under 5 years
<i>(a) Numbers provided with Dental Care</i>			
Examined	205	291	1064
Needing Treatment	198	291	949
Treated	198	282	940
Made Dentally Fit	131	223	826
Total Attendances	362	880	1233
<i>(b) Forms of Dental Treatment Provided</i>			
Temporary Extractions	—	—	1474
Permanent Extractions	698	1606	—
Temporary Teeth Filled	—	—	471
Permanent Teeth Filled	100	156	—
Anaesthetics —Local	72	126	62
General	76	150	575
Partial Upper Dentures fitted	13	25	—
Full Upper Dentures fitted	12	85	—
Partial Lower Dentures fitted	5	27	—
Full Lower Dentures fitted	8	55	—
Scalings or Scaling and Gum Treatment	45	47	1
Silver Nitrate Treatment	—	2	57
Dressings	34	26	38
Radiographs	4	5	2

Number of Sessions spent on M.C.W. work 330

Artificial Sunlight Treatment

During the year 1957, the attendances by children under 5 at the sunlight clinics listed below were as follows:—

Dukinfield	417	Sale	313
Hyde	1349	Stalybridge	616
New Ferry	136		

Orthopaedic Scheme

The specialist orthopaedic sessions held at clinic premises are conducted by the Regional Hospital Boards, in the same way as those held at hospital premises, and suitable financial arrangements were made for the few clinics where physiotherapy was only partly under specialist supervision.

The following shews the attendances made during 1957 at such clinics (excluding those for sunlight only) by children under 5:—

Dukinfield	87	Northwich	480
Ellesmere Port	143	Runcorn	242
Hyde	590	Stalybridge	281
New Ferry	250	Stockton Heath	258

Infant Foods

The financial arrangements involved in the supply of infant foods at Welfare Centres continued in the main to be dealt with by Divisional Medical Officers and the voluntary committees' valued help in the various aspects of centre work was continued.

Welfare Foods Service

At 31st December, 1957 there were, in all, 191 distribution centres in the administrative county, 155 of these being manned by voluntary personnel, and 36 by full-time or part-time paid staff, including the staffs of the local district councils where, by arrangement, points have been established on district council premises.

Supplies are received from S.P.D. Depots at Hanley, Liverpool, Manchester and Welshpool. S.P.D. Ltd. act as agents of the Ministry of Agriculture, Fisheries and Food in the matter of storage and delivery. It is usual for 4 to 5 weeks supply of Welfare Foods to be held at each distribution centre.

A total of 1,019,539 articles were distributed to individual beneficiaries, Institutions, N.H.S. Hospitals, and day nurseries during the period 30th December, 1956 to 28th December, 1957, made up as follows:—

National Dried Milk	276,306	tins
Cod Liver Oil	73,610	bottles
Vitamin A & D Tablets.....	40,315	packets
Orange Juice	629,308	bottles

Day Nurseries

Details of the 13 Day Nurseries now maintained by the County Council are given on page 33. The following table shows the position at the end of 1957:—

No. of Nurseries	No. of Places		No. of Children on register		Average daily attendance	
	0—2	2—5	0—2	2—5	0—2	2—5
13	233	333	138	378	109	299

Care of Unmarried Mothers

Arrangements have continued whereby unmarried expectant mothers are admitted to voluntary institutions some time before the confinement, and return there with the baby for varying periods afterwards. The County Council's own Home at 7, Trinity Road, Hoylake, provides 12 beds and 8 cots, and 47 women were admitted during the year, staying approximately eight weeks before the birth and six weeks afterwards. Responsibility was accepted at other homes and hostels for 55 such mothers during the year.

Child Welfare Centres

The following Table gives particulars, as in previous years, of the sessions and attendances at Child Welfare Centres throughout the County:—

LIST OF CHILD WELFARE CENTRES, 1957.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Adswood	Fortnightly	1st and 3rd Monday	24	580	224	24
Alderley Edge	Weekly	Friday	50	1329	574	27
Alsager	Fortnightly	1st, 3rd and 5th Tuesday	24	1222	217	51
Altrincham (The Mount)	Twice weekly	Monday & Wednesday	100	4580	659	46
Altrincham (Timperley)	Four times weekly	Tuesday a.m. & p.m. & Thursday a.m. & p.m.	202	5862	661	29
Audlem	Fortnightly	1st and 3rd Tuesday	24	716	292	29
Barnton	Fortnightly	2nd and 4th Wednesday	23	914	164	40
Barrow	Fortnightly	1st and 3rd Wednesday	24	343	105	14
Bebington (New Ferry)	Weekly	Wednesday	51	1604	576	31
Bebington (New Ferry Toddlers')	Monthly	2nd Thurs.	11	112	104	10
Bebington (Bromboro')	Weekly	Thursday	51	1372	452	27
Bebington (Eastham)	Weekly	Monday	49	1658	275	34
Bebington (Eastham Toddlers')	Monthly	3rd Friday	8	19	6	2
Bebington (Thornton Hough)	Fortnightly	1st and 3rd Friday	23	297	131	13
Bebington (Higher Bebington)	Weekly	Tuesday	52	1705	623	33
Bebington (Mayer Hall)	Weekly	Friday	50	1786	449	36
Bollington	Fortnightly	2nd and 4th Thursday	23	1052	290	46
Bowdon	Fortnightly	2nd and 4th Thursday	23	466	126	20
Bramhall	Fortnightly	1st and 3rd Monday	23	905	204	39
Bredbury	Twice weekly	Tuesday a.m. & p.m.	51	2477	736	49
Broadbottom	Fortnightly	1st and 3rd Wednesday	24	628	132	26
Euntury	Fortnightly	1st and 3rd Friday	16	185	63	11
Cheadle	Weekly	Tuesday	51	3797	1173	74
Cheadle (Toddlers')	Monthly	3rd Wed.	11	156	156	14
Cheadle Hulme	Weekly	Tuesdays	33	1901	411	58
Christleton	Fortnightly	1st and 3rd Thursday	3	47	26	16
Comberbach	Fortnightly	1st and 3rd Wednesday	24	947	237	39
Congleton	Weekly	Monday	48	1927	771	40
Crewe (Ludford St.)	Twice weekly	Thursday a.m. & p.m.	102	3632	714	36

LIST OF CHILD WELFARE CENTRES, 1957—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Crewe (Minshull New Road)	Fortnightly	1st and 3rd Monday	25	489	174	20
Crewe (Stalbr'ge Rd.)	Twice weekly	Monday and Wednesday	99	2898	611	29
Davenham	Monthly	1st Monday	12	407	95	34
Delamere	Fortnightly	1st and 3rd Wednesday	24	285	122	12
Disley	Fortnightly	1st and 3rd Tuesday	23	835	207	36
Dukinfield	Twice weekly	Wednesday & Thursday	99	4630	1329	47
Ellesmere Port (York Road)	Twice weekly	Tues. & Fri.	102	3736	469	37
Ellesmere Port (York Road 'Toddlers')	Monthly	1st Friday	10	85	85	9
Ellesmere Port (Ince)	Fortnightly	2nd and 4th Thursday	23	291	121	13
Ellesmere Port (Little Sutton)	Weekly	Monday	48	2264	320	47
Ellesmere Port (Overpool)	Fortnightly	1st and 3rd Thursday	24	1081	126	45
Farndon	Fortnightly	1st and 3rd Tuesday	24	349	132	15
Frodsham	Fortnightly	Alternate Tuesdays	27	1006	270	37
Gatley	Fortnightly	2nd and 4th Thursday	23	1103	329	48
Gatley (Toddlers')	Monthly	3rd Wed.	9	109	109	12
Goostrey	Fortnightly	1st and 3rd Tuesday	24	878	275	37
Grappenhall	Weekly	Tuesday	52	1643	478	32
Greasby	Weekly	Wednesday	51	1892	516	37
Hale	Weekly	Wednesday	51	2321	173	46
Hale Barns	Fortnightly	1st and 3rd Thursday	24	496	128	21
Handforth	Fortnightly	2nd & 4th Monday	23	538	193	23
Hartford	Fortnightly	2nd & 4th Tuesday	23	646	202	28
Haslington	Fortnightly	2nd and 4th Tuesday	24	811	204	34
Hazel Grove	Weekly	Tuesday	51	3839	1299	75
Heald Green	Fortnightly	1st & 3rd Thursday	24	1094	377	46
Helsby	Fortnightly	Alternate Tuesdays	25	1099	306	44
Heswall	Weekly	Monday	49	2271	482	46
High Lane	Fortnightly	2nd and 4th Tuesday	23	748	192	33
High Legh	Fortnightly	1st and 3rd Wednesday	24	355	168	15
Hollingworth	Fortnightly	1st and 3rd Thursday	24	1299	218	54
Holmes Chapel	Fortnightly	2nd and 4th Tuesday	23	512	207	22
Hoylake	Weekly	Thursday	51	2641	626	52
Huntington	Fortnightly	2nd and 4th Wednesday	23	427	182	19

LIST OF CHILD WELFARE CENTRES, 1957—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Hyde (Bayley Hall)	Twice weekly	Mon. & Fri.	97	4071	464	42
Hyde (Parsonage St.)	Twice weekly	Wed. & Thurs.	89	5297	861	60
Hyde (Parsonage St. Toddlers')	Monthly	1st Monday	12	122	63	10
Irby Kelsall	Weekly Fortnightly	Wednesday 1st and 3rd Tuesday	51 24	1329 769	288 148	26 32
Kingsley	Fortnightly	2nd & 4th Wednesday	23	265	127	12
Knutsford —	Weekly	Wednesday	51	1966	664	39
Lacey Green ..	Fortnightly	1st and 3rd Monday	22	587	193	26
Leftwich	Fortnightly	2nd and 4th Tuesday	19	607	162	32
Lower Peover	Fortnightly	2nd and 4th Monday	22	274	69	12
Lymm Lymm (Toddlers')	Weekly Fortnightly	Tuesday 2nd and 4th Wednesday	52 18	2818 234	773 234	54 13
Macclesfield (Bridge St.)	Twice weekly	Mon. & Fri.	97	2363	559	24
Macclesfield — (Bridge St. Toddlers')	Weekly	Tuesday	52	635	116	12
Macclesfield (Heyes Hall)	Weekly	Wednesday	51	1296	200	25
Macclesfield — (Hurdsfield House)	Weekly	Thursday	51	2638	577	52
Macclesfield — (Hurdsfield House Toddlers')	Weekly	Tuesday	51	1093	97	21
Macclesfield — (Sanders Sq.)	Weekly	Friday	51	956	265	19
Macclesfield — (Sanders Sq. Toddlers')	Weekly	Thursday	51	552	277	11
Malpas Marple Marple Bridge	Fortnightly Weekly Fortnightly	1st and 3rd Monday Wednesday 2nd and 4th Thursday	23 50 23	353 3180 868	174 721 246	15 64 38
Mellor Middlewich — Mobberley —	Fortnightly Weekly Fortnightly	1st and 3rd Thursday Monday Alternate Tuesdays	24 49 26	530 1390 515	210 510 330	22 20 20
Moulton Mow Cop	Monthly Fortnightly	3rd Wed. 1st and 3rd Wednesday	12 24	269 332	81 290	22 14
Nantwich Neston Northwich (Darland House)	Weekly Weekly Weekly	Thursday Thursday Tuesday	51 49 52	1783 3165 1545	216 356 562	35 63 30

LIST OF CHILD WELFARE CENTRES, 1957—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Northwich — (Parkfield)	Weekly	Thursday	51	2755	934	54
Over Peover —	Fortnightly	1st and 3rd Monday	23	201	102	9
Partington —	Fortnightly	1st and 3rd Thursday	24	633	245	26
Plumley —	Fortnightly	1st and 3rd Thursday	24	496	166	21
Poynton —	Fortnightly	1st and 3rd Thursday	24	1542	385	64
Prestbury (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	220	71	9
Rainow (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	259	80	11
Rode Heath —	Fortnightly	2nd and 4th Monday	24	418	123	17
Romiley —	Weekly	Thursday	50	1587	604	32
Runcorn — (Halton Road)	Twice weekly	Wednesday a.m. & p.m.	102	3223	1005	32
Runcorn — (Halton Road Toddlers')	Monthly	1st Monday	12	156	152	13
Runcorn (Weston Point)	Fortnightly	1st and 3rd Thursday	24	501	217	21
Sale (Brooke's Institute)	Weekly	Friday	49	2473	555	52
Sale (Chapel Road)	Twice weekly	Tuesday & Thursday	102	4597	837	45
Sale (Raglan Road)	Fortnightly	1st and 3rd Tuesday	50	2400	699	48
Sale Moor —	Weekly	Thursday	50	2671	730	53
Sandbach —	Weekly	Tuesday a.m. & p.m.	104	3868	1031	37
Sandiway —	Fortnightly	1st and 3rd Tuesday	24	1100	174	46
Saughall —	Fortnightly	1st, 3rd & 5th Monday	28	564	185	20
Scholar Green	Fortnightly	2nd and 4th Wednesday	24	559	151	23
Shavington —	Fortnightly	2nd and 4th Tuesday	23	973	247	42
Stalybridge — (Mechanics' Institute)	Twice weekly	Tuesday & Wednesday	100	4205	921	42
Stalybridge — (Millbrook)	Fortnightly	1st and 3rd Monday	46	1729	313	38
Stockton Heath	Weekly	Monday	48	1583	433	33
Sutton —	Fortnightly	2nd and 4th Wednesday	22	495	144	23
Tarporley —	Fortnightly	2nd and 4th Thursday	23	642	178	28
Tarvin —	Fortnightly	2nd and 4th Wednesday	23	691	149	30
Tattenhall —	Fortnightly	2nd and 4th Monday	24	426	129	18
Tintwistle —	Fortnightly	2nd & 4th Thursday	24	670	94	28
Upton —	Weekly	Thursday	51	1630	629	32
Weaverham —	Weekly	Tuesday	52	2827	641	54

LIST OF CHILD WELFARE CENTRES, 1957—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
West Kirby —	Weekly	Friday	50	2537	572	51
Willaston (Wirral) —	Fortnightly	1st and 3rd Friday	23	479	132	21
Wilmslow —	Weekly	Thursday	51	1917	361	38
Winsford —	Weekly	Friday	51	1627	530	32
Winsford (‘Toddlers’) —	Monthly	1st Thurs.	12	176	73	15
Wistaston (Willaston) —	Fortnightly	2nd and 4th Wednesday	23	671	144	29
Wrenbury —	Fortnightly	2nd and 4th Wednesday	24	341	86	14

Nursing and Maternity Homes

The County Council is the registration Authority for private Nursing and Maternity Homes under Sections 187 to 194 of the Public Health Act, 1936, for the whole County, and the following details show the position for the year ended 31st December, 1957:—

No. on Register, 31/12/57	.....	.....	30
No. of inspections during 1957	.....	.....	39
No. of new homes registered in 1957	.....	.....	1

Homes for Old People, etc.

The regulations for registration and inspection of voluntary homes for old people, etc., namely the National Assistance (Registration of Homes) Regulations, 1949, are administered by the County Health Department, and the position for the year ended 31st December, 1957, is shewn below:—

No. on Register, 31/12/57	.....	.....	20
No. of inspections during 1957	.....	.....	11
No. of new homes registered in 1957	.....	.....	—

Nurseries and Daily Minders

The County Health Department is responsible for the inspection and registration of premises under the Nurseries and Child Minders Regulation Act, 1948, and the position on 31st December, 1957, was as follows:—

(a) (i) Number of factory nurseries registered	.....	.....	9
(ii) Number of children provided for	.....	.....	264
(b) (i) Number of daily minders registered	.....	.....	12
(ii) Number of children provided for	.....	.....	119

Section VII.-Midwifery

General

A summary of the numbers involved is given below, further details on pp. 29-30, and general information, relating both to district nurses who practise midwifery and to those who do not, in Section XI.

Number of Midwives in Practice

There were 342 midwives who notified their intention to practise in the County Area during 1957:—

County Midwives	62
District Nurse Midwives	120
Independent Midwives	23
Practising in Private Nursing Homes	10
Practising in Institutions	127

Inspection of Midwives

Visits paid by Senior Medical Officer	116
Lectures to midwives and pupils	24
Visits paid by Non-Medical Supervisor of Midwives:—	
Inspection of County Midwives	140
Inspection of Independent Midwives	8
Statutory supervision of District Nurse Midwives	133
Special visits to Midwives	79
Visits to pupil Midwives	38
Lectures to pupils and Midwives	8
Cases visited:—	
Labours	6
Nursings	65
Ante-natal	26

Cases attended by County Midwives and District Nurse Midwives on County Council Staff

	<i>Deliveries (live and still)</i>		<i>Stillbirths included in Cols. a & b</i>	<i>Miscarriages</i>
	<i>Col. a as midwives</i>	<i>Col. b as maternity nurses</i>		
Midwives	1,856	632	25	77
District Nurse Midwives	836	678	17	53
Total	2,692	1,358	42	130

Number of patients attended by midwives following early discharge from Hospital

3649

Notifications received (Central Midwives Board Rules)

Medical Aid	1156
Stillbirths	78
Laying out the Dead	50
Source of Infection	117
Artificial Feeding	1818
Deaths in the Practice	21

Gas and Air Analgesia

(a) Number of domiciliary midwives practising in area 31/12/57, who were qualified to administer inhal- ational analgesics	170
(b) Number of sets of apparatus in use by above, 31/12/57	146
(c) Number of cases in which inhalational analgesics were administered, 1957—	
(a) when doctor was not present	2360
(b) when doctor was present	864

Pethidine

Number of cases in which pethidine was administered by
domiciliary midwives during 1957:—

(a) When Doctor was not present	1574
(b) When Doctor was present	730

Section VIII.-Food and Drugs Acts

Milk (Special Designations) (Pasteurised and Sterilised Milk) Regulations, 1949.

Milk Supply

The Department continued its work during the year in connection with the milk supply, as a contribution towards the aim of ensuring that all milk sold within the county reaches the consumer in a clean and wholesome condition and free from disease-producing organisms.

One of the most important duties of the County Council in this respect is the licensing and supervision of milk pasteurising and sterilising plants within its "Food and Drugs" area. During the year 1957, 26 pasteurising licences and 5 sterilising licences were in operation at 27 different dairies within the administrative area. The dairies range from the small family concern to several of the largest dairies in the country.

So far as the pasteurising establishments are concerned, nine of them were operating holder type plant, with outputs of from 140 to 500 gallons per day. This type of plant is comparatively simple in design, but with very little in the way of mechanical safeguards and thus everything depends upon the person operating it. The remaining 17 licences for the pasteurising of milk were issued in respect of plants operating on what is termed the "high temperature — short time" principle, and here the output at the dairies concerned ranges between 550 and 16,000 gallons per day. These plants are of more complicated design, but are largely automatic in operation, and have safeguards incorporated for the diversion of any milk which has not been sufficiently heated. When failures do occur on these plants, the investigation of faults is a more difficult matter and may entail spending a considerable amount of time in the dairy.

The milk sterilising licences are issued in respect of two main types of plant, the batch type where a "tank" is loaded with bottles of homogenised milk and the sterilisation is then effected by raising the temperature of the milk under pressure to some few degrees above boiling point, and the continuous process where the bottles of homogenised milk move continuously through the plant and are heated, held and cooled before issuing at the other end of the machine for loading into crates. The plants licensed in Cheshire vary from a small installation processing 130 gallons per hour to a large dairy which has two continuous process plants each dealing with 1,000 gallons per hour, and sterilising in all about 15,000 gallons per day.

It is estimated that the dairies licensed by the County Council process on an average about 115,000 gallons of milk per day, of which 85,000 gallons is pasteurised milk and 30,000 gallons sterilised milk.

The importance of the work of supervising these dairies will be realised when one notes that this quantity of milk represents the daily

consumption of a population of about 1,315,000 people. As the population of the administrative county is about 850,000, it will be seen that the Department is actually safeguarding the supplies of a large population outside its own area. This is accounted for, of course, by the fact that milk from several of the largest dairies in the county area is transported long distances before being retailed. Incidentally, the milk from the licensed plants is subject to sampling by any local authority in whose area the milk is sold, and it speaks well for the general standard maintained that very few samples indeed are reported by local authorities to the department as being unsatisfactory in any respect. The Department maintains a close check on the licensed dairies in two ways. Samples of processed milk are collected three times a week from all the plants and these are examined by tests which show whether the milk has been adequately heat treated and also whether the milk is of a satisfactory standard of cleanliness. Washed bottles are also regularly collected and brought to the laboratory for examination to disclose the efficiency of the bottle-washing process in the dairy.

In addition to this the County Health Inspector pays routine visits to the dairies from time to time and checks not only the processing but also the condition of the premises and the general maintenance of good standards of hygiene; this work is very necessary. It is found that a visit, especially to the smaller dairies, will often forestall a sample failure by detecting an incipient fault. But even in dairies where the sampling record is excellent and failures are exceedingly rare, it is found in many cases that unless the Inspector can pay a visit from time to time the general hygienic standard of the premises tends to deteriorate. In other words, sampling by itself, however frequent, is not sufficient.

In the case of a milk sample failing to pass the prescribed tests, the County Health Inspector endeavours to make an immediate inspection to try to ascertain the cause of the failure. The majority of failures occur in the smaller dairies operating holder types of pasteurising plants and usually it is the human element which is at fault, though occasionally a mechanical fault or an inaccurate thermometer is found to be responsible.

From the figures of milk examinations made by the laboratory during the year it will be seen that 29 samples failed in the Phosphatase test which is the official test for the correct heat treatment of pasteurised milk (the Aschaffenburg-Mullen test is an unofficial test for the same purpose which is quicker and equally reliable and this is also carried out by the laboratory on all samples of pasteurised milk). Of the 29 samples which failed, 24 were from dairies licensed by the County Council, and 5 from dairies in the areas of other Food and Drugs authorities (dealt with under the Milk in Schools Scheme). Of the 24 failures on plants within the administrative area, 21 were from holder plants and 3 from a H.T.S.T. plant which had been bought from

another dairy and had a certain amount of "teething troubles" before it settled down. Of the 21 samples from holder plants more than half of these were from two dairies which caused the department some concern during the year. Both were small dairies where the operatives were not entirely reliable and where the supervision from time to time was inadequate. The owners of the dairies had to be warned very firmly that further lapses could not be tolerated, and since that time these two dairies have given very little trouble.

In considering the number of failures which arose, it must be borne in mind that each dairy is sampled three times weekly (including certain Sunday visits), *i.e.* 156 times each year, and thus any defect in processing at any particular time is quickly detected. Some authorities sample much less frequently than this and the number of failed samples in a year will consequently be much less for the same degree of efficiency at the plants.

The figures of samples examined by the laboratory continue to show very satisfactory results. The percentage of samples which failed the phosphatase test (0.66%) was much the same as in 1956. Failures on the cleanliness test (the reductase test) were less than in 1956, totalling 4 of 4,347 samples examined (0.09%). The 889 samples of sterilised milk examined by the official Turbidity test, all passed. A total of 4,630 washed bottles was examined. These are collected by the sampling officers at the dairy at the same time as milk samples are collected. Each bottle was examined by the plate count test, and for the presence of coliform organisms. Although these tests have no legal authority they are a most useful indication to the dairy concerned of the efficiency of their bottle-washing machines, especially in the case of the smaller dairies who have no laboratory facilities on their own premises.

During the year, 362 samples of milk were examined for the detection of traces of hypochlorite residuals, but without any positive indications. The need for this test is due to the extensive use in these days of oxidising or preservative agents in the cleansing of milk vessels. Only certain products, approved by the Minister of Agriculture, Fisheries and Food, may be used and the Milk and Dairies Regulations require all trace of such agents to be removed before the vessel is again brought into contact with milk.

Cheshire is fortunate in having its own milk laboratory, attached to the Public Health Department, and close contact is maintained between the laboratory and the licensed dairies in the county. The regular reporting of the results of examinations of milks and washed bottles is of great value to the dairies, and a rapid report to the dairy concerned of a border-line sample result, often enables the dairy to take immediate steps to find where the processing has fallen below its usual standard and to correct the fault without delay.

Milk in Schools Scheme

All milk supplies under this scheme are subject to the approval of the County Medical Officer. Any new supply proposed for any particular school is first referred by the Director of Education to this department for approval.

Figures are given of samples of school milks examined in the laboratory during 1957. In the case of schools supplied by dairies licensed by the County Council, the samples were collected from the dairies before the milk was delivered to the schools. In the case of schools supplied by dairies licensed by other authorities, *e.g.* neighbouring county borough or county councils, the samples were collected at the schools. At the end of the year arrangements were made for all school milk samples to be collected at the schools and this system was put into operation in January 1958. It should be noted that the school milk figures are also included in the table showing *total* examinations carried out in the county laboratory. It will be observed that 12 school milk samples failed the official Phosphatase test and 1 the official Reductase test. Of the 12 samples which failed the Phosphatase test, 5 were samples of the milk supplied by dairies in the areas of other Food and Drugs authorities. In these cases appropriate action was taken in conjunction with the authorities concerned. In the remaining cases, the matter was taken up with the dairies concerned by the County Health Inspector in the usual way.

Tuberculous Milk

A specific duty is laid upon county councils by the Food and Drugs Act, 1955 to administer provisions designed to prevent the sale of tuberculous milk. Although the number of undesignated herds (*i.e.* herds other than tuberculin-tested herds) in the county is decreasing year by year, there are still a considerable number. For the purpose of discharging the County Council's duty in this respect, the sampling officers visit the undesignated farms from time to time and collect a *bulk* sample of milk which is then submitted for biological examination to the Public Health Laboratory Service either in Manchester or in Birkenhead. During the year 1957, 2,790 such samples were submitted and 112 were reported as containing the organisms of tuberculosis. These positive samples were reported to the Divisional Veterinary Officer of the Ministry of Agriculture, Fisheries and Food and the Ministry's officers take steps to try to find the cow or cows which are secreting tubercle bacilli in their milk. Any cows so found are slaughtered under the Tuberculosis Order of 1938. Tuberculous positive milk samples are also reported to the Medical Officers of Health of the districts where the milk is produced or retailed. The Medical Officer of Health has powers under the Milk and Dairies Regulations, 1949, to place restrictions upon the sale of such milk for human consumption, until the herd has been declared free from infection by the Ministry.

Specified Areas

Progress towards the attainment of a nation-wide standard for milk sold to the public is being made by the declaration of what are called "specified areas". In any such area, only the "specially designated" milks may be sold, *i.e.* pasteurised, sterilised and tuberculin-tested milks. It is hoped that eventually the whole country will be covered by these Orders, and already considerable progress has been made. So far as Cheshire is concerned, at the end of 1957 approximately 80% of the population of the administrative county were living in areas covered by the operation of these Orders, and it is understood that the specification of other areas of the county is under consideration.

County Public Health Laboratory

The following tables show the work of the laboratory during the year 1957 and comparative figures for previous years are also given:—

Total number of examinations made during the year 1957—

	<i>Pos.</i>	<i>Neg.</i>	<i>Total</i>
Milks :			
Cultures for Coliform bacilli	81	4289	4370
	<i>Failed</i>	<i>Passed</i>	<i>Total</i>
Aschaffenburg and Mullen Test (Pasteurised milks)	29	4341	4370
Phosphatase test (Kay-Graham) (Pasteurised milks)	29	4341	4370
Clot on boiling test	—	4391	4391
Reductase test	4	4343	4347
Turbidity test (sterilised milks)	—	889	889
Plate counts	—	—	1528
Hypochlorites Test	—	362	362
Washed Bottles (two examinations each)	—	—	9260

Total examinations made of all specimens 33,887

Milk Specimens examined 1948-57

Year	Clot on Boiling Test	Reductase Test	Coliform Test	Pasteurised Milk		Plate Count	Turbidity Test for Sterilised Milk	Other Tests	Total Examinations
				Phosphatase Test (Kay-Graham)	Aschaffenburg Test				
1948	-----	13330	11128	447	-----	8	-----	-----	24913
1949	-----	9400	6764	530	-----	1	-----	-----	16695
1950	-----	1121	-----	1201	-----	-----	51	-----	2373
1951	3451	3443	3238	3454	1459	-----	134	-----	15179
1952	3924	3830	3858	3858	3858	1089	156	-----	20573
1953	4304	3929	3948	3948	3948	1322	356	-----	21755
1954	4627	4100	4105	4105	4105	1400	522	-----	22964
1955	4976	4197	3312	4293	4293	860	624	-----	22555
1956	4988	4220	4235	4235	4235	1430	753	56	24152
1957	4391	4347	4370	4370	4370	1528	889	362	24627

School Milk Samples Examined 1957.

	<i>Passed</i>	<i>Failed</i>	<i>Total</i>
Phosphatase test	932	12	944
Aschaffenburg and Mullen test	932	12	944
Clot on boiling test	739	-----	739
Reductase test	920	2	922

	<i>Negative</i>	<i>Positive</i>	
Cultures for Coliform Bacilli:—			
Milks	911	33	944
Bottle Rinses	288	-----	288
Colony Counts:—			
Milks	-----	-----	607
Bottle Rinses	-----	-----	288

Total number of examinations of all specimens 5676

REPORT ON SAMPLES OF WASHED BOTTLES COLLECTED FROM MILK PROCESSING DAIRIES

Year	Satis- factory	Fairly Satis- factory	Unsatis- factory	Coliform Bacilli Negative	Coliform Bacilli Positive	Total No. of Examin- ations made
1953 March to December (incl)	3,377	37	76	3,486	4	6,980
1954	4,769	23	40	4,830	2	9,664
1955	2,911	37	15	2,962	1	5,926*
1956	4,609	59	53	4,717	4	9,442
1957	4,506	61	61	4,629	1	9,260

Interpretation of results:—

Colony count per bottle.

Classification.

Not more than 200	-----	-----	-----	-----	-----	Satisfactory
200 to 600	-----	-----	-----	-----	-----	Fairly satisfactory
Over 600	-----	-----	-----	-----	-----	Unsatisfactory

* It was not possible to carry out any of these examinations between mid June and mid October due to a breakdown of the incubator in the laboratory.

Samples for analysis

The Chief Inspector of Weights and Measures, Food and Drugs, etc., (the late Mr. Stacey Hallard) reported as follows on the work of his Department in administering the Food and Drugs Act, 1955, so far as it related to the sale of non-standard or adulterated food or drugs.

The main work of the Department concerns the taking of samples of any food or drug on sale and submitting it to the Public Analyst for analysis. The area in which this work is carried out is that for which the County Council is the "Food and Drugs Authority" *i.e.*, the whole of Cheshire excepting the four County Boroughs and the Municipal Boroughs of Bebington, Crewe and Sale. Much of the work is of a routine character and the number of samples obtained is based on the generally accepted standard of approximately 2½ samples per thousand of the population in rural areas and 3 per thousand in urban areas. This number has been accepted as adequate by the appropriate Ministry (currently the Ministry of Agriculture, Fisheries and Food) to whom a report is made each quarter. As one might expect the vast majority of the samples are certified to be genuine in that they conform to any statutory standard for the time being in force or otherwise are of good commercial quality.

Most of the non-standard samples, other than milk, were found as a result of routine sampling, but the majority of the milk prosecutions were instigated as a direct result of the help given by one or other of

the wholesale Dairy Companies. For their own protection these companies constantly test in their own laboratories the milk they receive from farmers. On finding an adulterated milk they usually request the aid of the Department in obtaining official samples. Thus a Sampling Officer is detailed to follow-up these informal tests by taking official samples on the next occasion the milk from the suspected farmer is being handed over at the farm or Dairy.

During the year 2033 samples of all types of food and drugs were obtained and submitted for analysis to J. Graham Sherratt, Esq., B.Sc., F.R.I.C., the Public Analyst for Cheshire. The total was made up of 1,210 milks and 823 miscellaneous articles of food, details of which will be found in the following table:—

<i>Article</i>	<i>Total Analysed</i>	<i>Samples certified as adulterated or otherwise not in order</i>
Boric ointment	6	2
Bread	1	1
Buttered barm cake	2	2
Buttered liquorice sweets	1	1
Celery soup	1	1
Cod liver oil	27	3
Drambuie	1	1
Flavouring, strawberry	1	1
Glycerine	6	1
Halibut liver oil caps.	2	1
Lard	17	3
Marmalade	2	1
Milks	1,210	103
Milk flavouring	1	1
Mint Jelly	1	1
Orange Squash	2	2
Plain Flour	63	15
Pork sausage meat	1	1
Pork sausage	10	6
Quinine compound tablets	1	1
Sago, flaked	2	2
Sulphur and Yeast tablets	2	1
Sweet spirit of nitre	1	1
Table jelly	7	1
Teasol	1	1
B.P. Official preparations, simple household medicaments, etc.	151	—
Miscellaneous groceries and unclassified articles	513	—
	2,033	154

Regarding the milks,—of the 103 shown as adulterated or non-standard, 14 contained added water, 19 were deficient in fat and 70 were deficient in non-fatty solids. The amount of added water present in the 14 samples varied from 2.3 per cent to the phenomenal figure of 91.8 per cent. The circumstances in connection with this latter sample and several of others worthy of mention are given below.

It is only fair to say that no one would allege that any sane person would deliberately add 91.8 per cent of water to milk. Nevertheless this particular bottle of sterilised milk was sent out by a Dairy Company and delivered to a householder. The householder could see that it was heavily “watered” and complained to an Inspector of this Department, who submitted it for analysis. On investigation the bottlers suggested that the trouble was no doubt due to an occurrence which could take place during the sterilization process if there was a defective cap or bottle-neck. Even allowing that this was the explanation, the inspectional side of the business must have been seriously at fault for such a bottle to leave the dairy. In view of this, legal proceedings were instituted and the bottlers were fined £5 and £2 8s. 0d. costs.

Another serious case (as the adulteration was undoubtedly deliberate) related to a complaint by a Cheshire Dairy Company to the effect that they were receiving watered milk from a Derbyshire farmer and as a result an Inspector of this Department took samples from each of two churns on two successive days as the milk was unloaded at the Dairy Company’s premises. The samples were subsequently certified by the Public Analyst as “containing extraneous water”. In view of this an endeavour was made by the Inspector to take corresponding follow-up samples when the farmer deposited the milk at the collecting point in Staffordshire. However, owing to geographical and other difficulties, he was unsuccessful in obtaining the samples, although he gained sufficient knowledge to facilitate another attempt a few days later. This further attempt was made by a different Inspector using a different car, and he saw the tractor and trailer (with churns) leave the farm and was able to intercept the milk at the “collecting point”. Four churns were there unloaded and the Inspector took a sample from each. Analysis by the Public Analyst proved that the churns contained 13.0; 8.2; 18.8 and 15.3 per cent respectively of extraneous water. The following day at 6-45 a.m. the Inspector visited the producer’s farm and took an “appeal to cow” sample, this proved to be milk of good quality. Accordingly, eight summonses were issued—one in respect of each of the eight churns. The Magistrates fined the defendant £5 on each summons and ordered payment of £12 12s. 0d. costs—a total penalty of £52 12s. 0d.

A further case came to light when, acting on information received, an Inspector intercepted a lorry collecting three churns of milk from a farm for delivery to a Dairy Company. A sample was taken from each churn and submitted to the Public Analyst for analysis. One

sample was certified as containing 14.6 per cent of extraneous water. Accordingly, an "appeal to cow" sample of the corresponding milking was taken which was certified to be 'Genuine'. No explanation of the presence of extraneous water could be offered by the Producers of the milk, and the milk cooling system was inspected and proved free from any leak.

At the subsequent hearing the Magistrates imposed a total penalty of £65 12s. 0d.

The final case of this type concerned a complaint by a Dairy Company to the effect that a farmer was sending in milk containing added water. As a result an Inspector waited at the Dairy until the lorry arrived with the milk which included the one churn from this particular farm. A sample taken from this churn was subsequently certified as containing seven per cent of extraneous water and in view of this a corresponding "appeal to cow" sample was taken the following day from a supervised milking at the farm. This proved to be milk of good quality. At the subsequent hearing the Magistrates fined the defendant £15 and £4 4s. 6d. costs.

Only one prosecution was necessary in respect of the sale of Channel Island Milk and this concerned a routine purchase of a bottle of such milk at a shop. The milk contained only 3.1% of fat instead of the Standard of 4% required by the Regulations. No "appeal to cow" was taken in this instance as the Standard is absolute whether or not the cow is responsible for the poor quality. A summons was issued against the producer and the Magistrates granted an absolute discharge on payment of £1 12s. 0d. costs.

Regarding the perennial subject of glass in milk, there was a slight increase (from 10 to 12) in the number of incidents reported but a slight reduction (4 to 3) in the number of prosecutions for this type of offence when compared with 1956. One trader was concerned in two of these three cases and he was fined £10 in May and a further £15 and 7/6 costs in September for supplying two different schools with glass fragments in the milk.

The other trader was fined £10 in respect of a similar type of offence relating to a school which he supplied.

Apart from these 'glass' cases there was also an instance in which a bottle of milk delivered to a school contained foreign particles. The Public Analyst subsequently certified the foreign matter to be the larvae and partially developed eggs of a fly. The firm, which had several previous convictions in respect of a variety of substances found in their milk, *e.g.* chewing gum, black oily substance, grit, etc., was fined £25 and £13 costs.

Before leaving school milk mention should be made of the only instance during the year in which it was alleged that school milk contained added water. The facts came to notice following a complaint

by a teacher to his local Medical Officer of Health. The latter sent his Public Health Inspector to investigate and subsequently the three bottles were handed to an Inspector of this Department. On arrival at the County Analyst's Laboratory the milk was found to be too sour for the freezing-point test to be carried out although from his preliminary analysis the Public Analyst was satisfied that the milk was "watered". Accordingly further samples were obtained from the supplier at the time he was delivering milk to the school, but these proved to be genuine. As the supplier himself received the milk ready bottled from a wholesaler who in turn received the milk from several farmers, arrangements were made to sample the milk sent from each farmer to the wholesaler and all these samples proved to be genuine. In view of all the circumstances no legal action was possible.

Apart from school milk one case of a foreign body in milk concerned a householder who found part of a cigarette packet bearing the words "3 pints please" in the bottle of milk delivered to his house. The firm was subsequently fined £10 for this offence.

Regarding non-standard samples other than milk,—of the 823 analysed 51 were certified as not conforming to statutory requirements. This figure of non-standard samples is exceptionally high and, in fact, higher than at any time since before the War. One of the main causes of this is the large number (63) of samples of flour obtained of which no less than 15 were reported against. In this connection the County Analyst reported to the Weights and Measures, Food and Drugs Act Committee as follows:—

"On 30th September, 1956, the Flour (Composition) Regulations, 1956, came into force. During the milling of white flour the natural contents of iron, vitamin B1 (Aneurine), nicotinic acid and calcium in the wheat become concentrated in the rejected products, and the Regulations provide for the artificial replacement of these components to the flour; chalk (*creta praeparata*) and a "master mix" containing iron and the two specified vitamins must be added in prescribed quantities.

No difficulty in incorporating the combined mixture of iron and vitamins has been reported, but it is known to be difficult to mix small quantities of chalk uniformly throughout a large bulk of flour. Hence, some variation in the chalk content of samples may be anticipated and it does not necessarily imply non-conformity with the Regulations unless chalk is found to be regularly deficient or regularly in excess in the product of an individual firm. At the beginning of 1957, therefore it was recommended that a comparatively large number of informal samples of flour should be taken during the year in each of the four divisions of the County, in order to gain information of the extent of variation of the additives. In accordance with this policy, 63 samples of flour have been examined during the year. The results of analysis indicate that the official requirements in respect of iron and

vitamins are being met, but there appears to be some preponderance of samples containing an excess of chalk."

A brief summary of all non-standard samples other than milk is given below, the result of the analysis being shown in parenthesis.

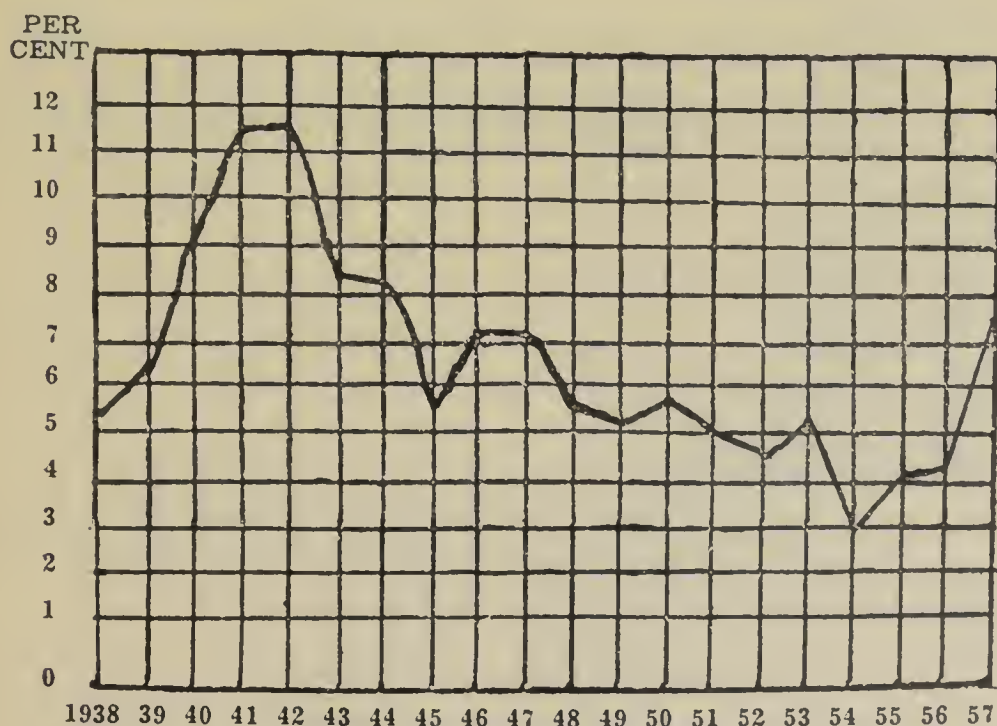
- 1 to 15 **Plain flour** (Contains an excess or deficiency of creta praeparata). See remarks above.
- 16 **Celery soup** (Incorrectly labelled in that it does not specify the ingredients in the order of the proportions in which they are used, the ingredient in the greatest proportion being specified first). Manufacturers cautioned. New label now in use.
- 17 **Bread** (contaminated with oily matter, rust and dirt). Bakers cautioned. Contamination due to a chain breaking in an improver at the bakery.
- 18 **Sulphur and Yeast tablets** (17.3% deficient in sulphur of the amount declared). Manufacturers cautioned.
- 19 **Sago, flaked** (Infested with insects and unfit for human consumption). Informal sample. See corresponding formal sample No. 21 below.
- 20 **Milk flavouring** (contained 300 parts per million Benzoic preservative). No action owing to doubt as to whether this should be classed as a flavoured syrup. Authorities are investigating similar product.
- 21 **Sago, flaked** (contaminated with dirt). Seller cautioned. Formal sample corresponding to No. 19 above.
- 22 **Buttered barm cake** (barm cake spread with margarine). Informal sample. See corresponding formal sample No. 23.
- 23 **Buttered barm cake** (barm cake spread with margarine). Formal sample re No. 22 above. Conditionally discharged on payment of £1 19s. 0d. costs.
- 24 **Cod liver oil** (deficient in Vitamin A). Seller cautioned. Deficiency due to long storage in retail shop.
- 25 **Cod liver oil** (deficient in Vitamin A). Seller cautioned. Deficiency due to long storage in retail shop.
- 26 **Table jelly** (did not conform to the official setting test). Manufacturers cautioned.
- 27 **Marmalade** (contaminated with a bristle composed of vegetable fibre and including a fragment of carbonised sugar). Manufacturers cautioned.
- 28 **Flavouring, strawberry** (flavoured syrup containing benzoic acid preservative (330 parts per million). No action.
- 29 **Pork sausage meat** (contained 190 parts per million of undeclared preservative). Seller fined £5 and £2 10s. 0d. costs.

- 30 **Cod liver oil** (deficient in vitamin A). Old stock. Seller cautioned.
- 31 **Sweet spirit of nitre** (deficient in ethyl nitrite to the extent of 45.6%). Deficiency probably due to rapidity with which ethyl nitrite decomposes. Seller cautioned.
- 32 **Mint jelly** (did not conform to the requirements of the Labelling of Food Order, 1953). Manufacturers cautioned. New label now in use.
- 33 **Pure lard** (rancid and contained an excess of free-fatty acid). Informal sample. See No. 34.
- 34 **Lard** (lard that is rancid). Further informal sample from same seller as No. 33. See corresponding formal sample No. 35.
- 35 **Lard** (lard contaminated with an excess of free fatty acid). Manufacturers cautioned.
- 36 **"Teasol"** (statement on label incorrect and misleading). Manufacturers cautioned.
- 37 **Boric ointment** (contained approximately ten times as much boric acid as described by the B.P.). Seller cautioned. (Up to 1948 the amount found in this sample was permitted by the B.P. but after 1948 the amount was reduced to one-tenth.) This sample was manufactured before 1948.
- 38 **Boric ointment** (36.6% deficient in boric acid). Manufacturers cautioned.
- 39 **Pork sausage** (contained less than 80% pork, contrary to the recommendation in the Food Standards Committee's Report to the Ministry of Agriculture, Fisheries and Food). Manufacturers cautioned.
- 40 **Pork sausage** (270 parts per million of undeclared preservative). Informal sample. See corresponding formal sample No. 41.
- 41 **Pork sausage** (280 parts per million of undeclared preservative). Fined £2 and £2 10s. 0d. costs.
- 42 **Glycerine** (contaminated with Iron from rusty stopper). Manufacturers cautioned.
- 43 **Orange squash** (20% deficient in fruit juice). Attention of manufacturers drawn to deficiency.
- 44 **Drambuie** (8.5% extraneous water or 36% under proof). Formal sample to be obtained.
- 45 **Orange squash** (20% deficient in fruit juice). Attention of manufacturers drawn to deficiency.
- 46 **Halibut liver oil capsules** (deficient in vitamin A activity to the extent of 25% of the amount declared). Manufacturers cautioned.

- 47 **Quinine compound tablets** (the label of which was misleading). Manufacturers cautioned. Label bore legend ". . . tablets kill flu and cold germs." County Analyst regarded this statement as misleading and not in accordance with scientific knowledge.
- 48 **Pork sausage** (18.1% deficient in meat). Manufacturers cautioned.
- 49 **Pork sausage** (28.9% deficient in meat). Manufacturers cautioned.
- 50 **Pork sausage** (contained 170 parts per million of undeclared sulphur dioxide). Fined 10/- and £2 10s. 0d. costs.
- 51 **Buttered liquorice sweets** ("Butter flavoured confectionery incorrectly labelled.") Manufacturers cautioned. Sweets should have been labelled "Butter flavoured", not "Buttered."

In concluding this Section it is interesting to note the graph below which gives the percentage variation in the total numbers of non-standard samples each year since before the War.

Whilst I have no desire to minimise the seriousness of the upward swing in the number of samples reported against I must, at the same time, state that the special concentration on flour samples is a main cause of the poor showing and not that there is a general deterioration in the quality of foodstuffs on sale.



Section IX. Mental Health

PART I. MENTAL ILLNESS

TABLE I.

The following table shows the number of people suffering from mental illness admitted to hospital by agency of the authority's officers during the period 1st January to 31st December, 1957.

HOSPITAL	Mental Treatment Act, 1930				Lunacy Act, 1890				TOTAL			
	s. 1 (Vol.)	s. 5 (Temp.)	s. 20 (3 Day)	s. 21 (14 Day)	s. 16 (Certi- fied)							
<i>Liverpool Region</i> (Population 263,228)	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Deva, Chester —	78	106	3	1	19	24	8	31	30	36	138	198
Winwick, Warrington —	16	17	—	—	10	7	8	11	4	5	38	40
Ormskirk, Lancs. —	—	1	—	—	—	—	—	1	—	—	—	2
St. Catherine's, Birkenhead —	4	—	—	—	26	33	7	12	3	1	40	46
Whiston, Lancs. —	—	—	—	—	—	1	—	4	—	—	—	5
Sefton General, Liverpool —	—	—	—	—	—	1	—	—	—	—	—	1
Rainhill, Lancs. —	1	—	—	—	—	—	—	—	—	—	1	—
	99	124	3	1	55	66	23	59	37	42	217	292
<i>Manchester Region</i> (Population 598,572)												
Parkside, Macclesfield —	57	63	—	—	26	23	47	107	16	37	146	230
Boundary, Oldham —	—	—	—	—	—	—	1	—	—	—	1	—
Prestwich, Manchester —	—	—	—	—	1	—	1	1	—	2	2	3
Barony, Nantwich —	12	14	—	—	7	9	7	11	2	2	28	36
St. Thomas, Stockport —	2	14	—	—	3	—	14	10	—	3	19	27
Lake, Ashton-u-Lyne —	—	—	—	—	—	—	—	1	—	—	—	1
Ollersett, New Mills —	—	—	—	—	—	—	—	—	—	4	—	4
Crumpsall, Manchester —	—	1	—	—	—	—	—	—	—	1	—	2
	71	92	—	—	37	32	70	130	18	49	196	303
<i>Others</i>												
Cheadle Royal, Cheshire —	5	4	—	1	—	—	—	—	1	2	6	7
Provincial —	3	4	—	—	—	—	1	—	—	2	4	6
	8	8	—	1	—	—	1	—	1	4	10	13
Totals —	178	224	3	2	92	98	94	189	56	95	423	608
Combined Totals —	402		5		190		283		151		1031	
Corresponding Period 1956	407		20		156		275		210		1068	

Source of Notification of Cases of Mental Illness.

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General

For the first time in the past two years, a check in the progressive increase of admissions to hospital is revealed in the foregoing statistics. A decrease of 117 cases in the Liverpool Region, offset by an increase in the Manchester Region of 82 cases, gives an overall reduction for the Administrative County of 35 cases. The subjects of Mental Health and Mental Illness have received considerable publicity during the year, notably from the Report of the Royal Commission, and from the exhibitions held in both Regional Hospital Board Areas at Macclesfield Crewe and Chester. It is a matter of importance that one of the principal recommendations of the Royal Commission—the avoidance of certification wherever possible—has been achieved in advance of impending legislation, and greater use has been made of the “Short Order” to obtain appropriate treatment, when patients have not had sufficient insight to accept Voluntary Treatment. There has also been a great development of domiciliary visitation by consultant psychiatrists at the request of the family doctor.

Admissions

The undermentioned information, extracted from the Deva Hospital returns, conveys in retrospect (a) the nature of mental illness prevalent during the year (b) the period of hospitalization, and the prospect of a resumption of the patient's former normal life.

<i>Nature of Illness</i>	<i>Males</i>	<i>Nature of Illness</i>	<i>Females</i>
Depressive State	28	Depression	60
Endogenous Depression	6	Endogenous Depression	4
Manic—Depressive	3	Involutional Depression	5
Involutional Depression	6	Schizophrenia	6
Paranoid	2	Confusional stupor state	3
Alcoholism	5	Paranoid	3
Schizophrenia	22	Delusional State	1
Cerebrovascular Deterioration	1	Hysteria	1
Personality disorder	7	Hypomania	2
Epilepsy	3	Mania	1
Psycho-neurotic Personality	7	Melancholia	1
Mania	1	Paraphrenia	1
Confusional State	3	Manic Depressive State	1
Melancholia	1	Hypochondriasis	2
Anxiety State	4	Puerperal psychosis	1
Huntington's Chorea	1	Not stated	4
Mental Defective	1		
Hysteria	1		
Not diagnosed	1		
	<hr/> 103 <hr/>		<hr/> 96 <hr/>

Of the foregoing discharge of patients, the status and conditions were as follows:—

	<i>Status</i>		<i>Recovered</i>	<i>Relieved</i>	<i>Not Improved</i>
<i>Males</i>	97	Voluntary	27	58	12
	6	Certified	2	3	1
	<hr/> 103 <hr/>		<hr/> 29 <hr/>	<hr/> 61 <hr/>	<hr/> 13 <hr/>
<i>Females</i>	83	Voluntary	50	29	4
	13	Certified	7	6	—
	<hr/> 96 <hr/>		<hr/> 57 <hr/>	<hr/> 35 <hr/>	<hr/> 4 <hr/>

The periods spent in hospital, prior to discharge, are as under:

		Under 1 month	1—3 months	3—6 months	6—9 months	9—12 months
<i>Males</i>	Voluntary	97	34	41	14	6
	Certified	6	1	1	2	1
		<hr/> 103 <hr/>	<hr/> 35 <hr/>	<hr/> 42 <hr/>	<hr/> 16 <hr/>	<hr/> 7 <hr/>
<i>Females</i>	Voluntary	83	17	48	10	4
	Certified	13	—	8	3	1
		<hr/> 96 <hr/>	<hr/> 17 <hr/>	<hr/> 56 <hr/>	<hr/> 13 <hr/>	<hr/> 5 <hr/>

After-care

The numbers of cases referred to the Department for after-care visitation on discharge from hospital during the year were—Deva 79 cases, Winwick 93 cases, and Rainhill one case. Domiciliary visits have been made by Health Visitors and Authorised Officers in the Liverpool Regional Hospital Board's area. Discharged patients in the Manchester Regional Hospital Board's area have been supervised by the Hospital Psychiatric Social Workers. The implementation of the Royal Commission's recommendation at the present time, and consultation with Deva and Parkside Hospitals have already taken place.

Records

The numbers of patients admitted from the Administrative County and receiving treatment at the respective hospitals, as extracted from the weekly reports of Authorised Officers, and the statutory returns issued by Hospital Management Committees, are as follows:—

<i>Hospital</i>	Patients at 31/12/57		Patients at 31/12/56		Patients at 31/12/55	
	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>	<i>Men</i>	<i>Women</i>
Deva	381	533	362	498	339	510
Parkside	749	924	745	860	622	890
Stockport	69	83	49	42	53	43
Ashton	12	35	11	32	11	26
Nantwich	94	121	32	48	31	43
Others	156	270	249	345	263	349
	<u>1,461</u>	<u>1,966</u>	<u>1,448</u>	<u>1,825</u>	<u>1,319</u>	<u>1,861</u>

PART II. MENTAL DEFICIENCY

The following table gives particulars of the cases reported during 1957 and their disposal together with a classification of some special categories:—

		Under age 16		Aged 16 and over	
		M.	F.	M.	F.
1. <i>Particulars of Cases reported during 1957—</i>					
(a) Cases ascertained to be defectives "subject to be dealt with"					
Number in which action taken on reports by:—					
(i) Local Education Author- ities on children					
(1) While at school or liable to attend school		36	29	—	—
(2) On leaving special schools		2	3	2	1
(3) On leaving ordinary schools		1	—	—	1
(ii) Police or by Courts		—	—	1	—
(iii) Other sources		5	7	7	11
Total of 1 (a)		44	39	10	13
(b) Cases reported who were found to be defectives but were not regarded as "subject to be dealt with" on any ground		2	3	32	13
(c) Cases reported who were not regarded as defectives and are thus excluded from (a) or (b)		—	—	1	2
(d) Cases reported in which action was incomplete at 31st Decem- ber, 1957, and are thus excluded from (a) or (b)		7	1	—	—
Total of 1 (a) - (d) inc.		53	43	43	28

		Under age 16		Aged and over	
		M.	F.	M.	F.
2. Disposal of Cases					
(a) Of the cases ascertained to be defectives "subject to be dealt with" number					
(i) Placed under Statutory Supervision		43	39	5	11
(ii) Placed under Guardianship		—	—	—	—
(iii) Taken to "Places of Safety"		—	—	—	—
(iv) Admitted to Hospital		—	—	5	2
Total of 2 (a)		43	39	10	13
(b) Of the cases not ascertained to be defectives "subject to be dealt with" number					
(i) Placed under Voluntary Supervision		2	3	32	13
(ii) Action unnecessary		—	—	—	—
Total of 2 (b)		2	3	32	13
(c) Cases reported at 1 (a) or (b) above who removed from the area or died before disposal was arranged		1	—	—	—
Total of 2 (a) - (c) inc.		46	42	42	26
3 Number of Mental Defectives for whom care was arranged by the local health authority under Circular 5/52 during 1957 and admitted to—					
(a) National Health Service Hospitals		5	6	5	4
(b) Elsewhere		4	3	—	—
		9	9	5	4
4. Total cases on Authority's Register at 31/12/57.					
(i) Under Statutory Supervision		205	156	320	298
(ii) Under Guardianship		—	—	—	—
(iii) In "Places of Safety"		4	9	—	1
(iv) In Hospitals		48	37	356	252
Total of (i) - (iv)		257	202	676	551
(v) Under Voluntary Supervision		1	8	98	57
Total of 4 (i) - (v) inc.		258	210	774	608

		Under age 16		Aged 16 and over	
		M.	F.	M.	F.
5. <i>Classification of defectives in the Community on 31/12/57 (according to need at that date)</i>					
(a) Cases included in 4 (i)-(iii) in need of hospital care and reported accordingly to the hospital authority:—					
(1) In urgent need of hospital care:					
(i) "cot and chair" cases		15	9	4	3
(ii) ambulant low grade cases		7	6	1	—
(iii) medium grade cases		26	15	13	10
(iv) high grade cases		—	1	4	9
Total urgent cases		48	31	22	22
(2) Not in urgent need of hospital care:—					
(i) "cot and chair" cases		4	4	1	—
(ii) ambulant low grade cases		—	—	—	—
(iii) medium grade cases		6	3	2	1
(iv) high grade cases		1	—	1	2
Total non-urgent cases		11	7	4	3
(b) Of the cases included in items 4 (i), (ii) and (v) number considered suitable for:—					
(i) occupation centre		104	94	15	17
(ii) industrial centre		—	—	—	—
(iii) home training		—	—	—	—
Total of 5 (b)		104	94	15	17
(c) Of the cases included in item 5 (b) number receiving training on 31/12/57:—					
(i) in occupation centre (including Voluntary Centres)		96	82	15	17
(ii) in industrial centre		—	—	—	—
(iii) from a home teacher in groups		—	—	—	—
(iv) From a home teacher at home (not in groups)		—	—	—	—
Total of 5 (c)		96	82	15	17

Institutional Accommodation

During the year 1957 vacancies were found for mentally defective persons in institutions as follows :—

Arclid Hospital, Sandbach	—	—	—	1
Brockhall Hospital, Langho, Blackburn	—	—	—	6
Calderstones Hospital, Whalley, Lancs.	—	—	—	4
Cranage Hall Hospital, Holmes Chapel	—	—	—	3
Greaves Hall Hospital, Banks, Southport	—	—	—	5

The Manor, Great Sutton, Wirral	----	-----	-----	1
Mary Dendy Hospital, Alderley Edge	-----	-----	-----	11
Royal Albert Hospital, Lancaster	-----	-----	-----	6
Swinton Homes, Manchester	-----	-----	-----	2

Temporary Care

In 1957 the provision was continued of temporary care by admission to hospital for periods of up to two months during family emergencies, especially during the summer months when permanent patients are on holiday, thus providing a temporary respite for parents of children who could not at the time be permanently accommodated.

During 1957, such temporary care was provided in twenty cases. Another method of securing the same benefit has been the introduction of short stay accommodation at the Orchard Dene Hostel at Rainhill of the National Association for Mental Health where similar temporary accommodation is available, subject to contribution by the parents under the provision of the Care and After-care convalescence provisions of the National Health Service Act. Seven children were so accommodated in 1957.

The following table shows the Institutions where patients were accommodated at the end of the year under review:—

	Males		Females		Total		Total
	Under age 16	Over age 16	Under age 16	Over age 16	Under age 16	Over age 16	
Arclid Hospital, Sandbach	5	14	—	2	5	16	21
Ashton House, Birkenhead	—	—	—	3	—	3	3
Atherleigh Hospital, Leigh, Lancs.	1	—	3	—	4	—	4
Birkenhead Hospital	—	1	—	—	—	1	1
Botleys Park Hospital, Chertsey	—	—	—	1	—	1	1
Brentry Colony, Bristol	—	3	—	—	—	3	3
Brockhall Hosp., Langho	7	9	18	24	25	33	58
Bromham Hospital, Bedford	—	1	—	—	—	1	1
Calderstones Hospital, Whalley, Lancs.	7	46	1	23	8	69	77
Coed Du Hospital, Rhydymwyn	—	—	—	1	—	1	1
Cranage Hall Hospital, Holmes Chapel	11	134	10	119	21	253	274
Durran Hill Hospital, Carlisle	—	—	—	1	—	1	1
Earlswood Hospital, Redhill	—	1	—	1	—	2	2
Eaves Lane Hospital, Chorley	—	—	—	2	—	2	2
Fountain Hospital, London	—	—	1	—	1	—	1
Gillibrand Hall Hosp., Chorley	—	—	—	1	—	1	1
Greaves Hall Hospital, Southport	2	6	—	—	2	6	8
Hensol Castle Hospital, Pontyclun	—	—	—	1	—	1	1
Lisieux Hall, Chorley	—	1	—	—	—	1	1
The Manor, Great Sutton	—	—	—	7	—	7	7
Mary Dendy Hospital, Warford	—	97	—	39	—	136	136
Milnethorpe Hospital, Westmorland	—	3	—	—	—	3	3
Moss Side Hospital, Maghull	—	5	—	1	—	6	6
Newchurch Hospital, Culcheth	—	—	1	1	1	1	2
Rampton Hospital, Retford	1	8	—	3	1	11	12
Royal Albert Hospital, Lancaster	11	25	2	9	13	34	47
St. Margaret's Hospital, Birmingham	—	1	—	—	—	1	1
St. Mary's Hospital, Alton	—	—	—	1	—	1	1
St. Raphael's Hospital, Barvin Park, Herts.	—	1	—	—	—	1	1
South Ockenden Hosp., Essex	—	—	—	2	—	2	2
Stanley Hospital, Ulverston	—	—	—	1	—	1	1
Stoke Park Hospital, Bristol	—	9	—	5	—	14	14
Swinton Hospital, Manchester	4	1	4	2	8	3	11
Whitecross Homes Hospital, Warrington	3	—	6	1	9	1	10
Whittington Hall Hospital, Chesterfield	—	—	—	2	—	2	2
	52	356	46	253	98	609	707

Places of Safety and other temporary accommodation

At the end of the year 1957, the following numbers were placed temporarily in the Institutions shown pending permanent accommodation under the Mental Deficiency Acts:—

Atherleigh Hospital	4	Olive Mount Hospital	7
Crow Wood Hospital	3	Redcourt Approved Home	8
St. Joseph's Hospital	4	Whitecross Homes	10

Supervision

Male defectives in their own homes have continued to be supervised by Authorised Officers, and female defectives by Health Visitors.

Occupation Centres

The County Council now has five occupation centres, at New Ferry, Altrincham, Macclesfield, Hyde and Nantwich, which provide training for ineducable children, and much appreciated help to their parents.

Full use is made of special transport, and the only defective children suitable for occupation centres who cannot attend one are those few isolated cases in rural districts where the cost of transport would be wholly disproportionate.

The following table shows the numbers of Cheshire cases on the registers of occupation centres at the end of 1957:—

County Occupation Centres

<i>Name</i>	<i>Male</i>	<i>Female</i>
Altrincham	22	21
Bebington	28	18
Hyde	20	19
Macclesfield	22	16
Nantwich	13	13

Other Occupation Centres

Chester	2	5
Stockport	—	3
Manchester	5	—
Warrington	1	5

The present occupation centres provide for children of school age only. Consideration has been given by the County Health Committee to the provision of occupation centre training to adults, young children and physically handicapped persons suffering from mental defect, and it has been decided as a matter of policy that the occupation centre service shall be extended gradually to cover these other categories.

New occupation centres at Eastham (to replace the present one at New Ferry) and at Northwich have been included in the programme of capital expenditure for the present year, and plans are being prepared for submission to the Ministry of Health.

Local branches of the National Spastics Society, a voluntary organisation, have set up centres at Crewe, Bollington and Sale. Children and adults suffering from severe physical handicaps attend once or more weekly at these voluntary centres. Financial contributions are to be made to these centres, based upon the attendances of children who but for their physical handicap would attend occupation centres.

(This facility did not begin until March 1958, when payment began for seven cases at Bollington).

Discharges from Order

Twenty-seven cases who had been on licence from Institutions were discharged from Order during the year under review.

Prevention of Mental Illness

The valuable work of the County Council's cerebral palsy teams has continued, and clinics are held at Macclesfield, Cheadle, Crewe and Northwich. The Clatterbridge Cerebral Palsy Unit is also fully utilised. In other areas near Manchester children suffering from cerebral palsy attend at the Duchess of York Hospital at Burnage. These activities undoubtedly have a preventive effect with regard to mental deficiency.

The whole subject of prevention of mental ill-health is constantly in the minds of the Council's medical and nursing staff. Even the comparatively simple procedure of re-assurance and assuaging fears and doubts in suitable cases has a decidedly beneficial effect upon mental strains and stresses and thereby has preventive value. The establishment of a County Psychological Service, working in close co-operation with the hospitals and clinics set up by the Regional Hospital Boards, will for the first time provide county children with readily obtainable diagnostic and therapeutic means in that large field of mental ill-health which does not come within the purview of mental hospitals and their associated out-patient clinics. The present staff of the Health Department cannot cope adequately with the cases in this field even when their activities are supplemented by reference to child guidance centres outside the County. Such a service can be expected to have a considerable preventive value, in addition to its value in the investigation and treatment of behaviour disorders in childhood.

General

As in previous years reports on defectives and on their home conditions have been supplied to Hospital Management Committees on a variety of occasions, *e.g.* for holiday leave, licensing, and at intervals for the Statutory Visitors. Health Visitors and Authorised Officers have attended Juvenile and other Courts to give evidence in regard to alleged offences by defectives, and when necessary Medical Officers of the Department have attended to give medical evidence.

Co-operation with the Children's Department, and with the Welfare Department has continued as in previous years, and help was given to other authorities on a reciprocal basis in regard to their cases, by way of ascertainment and application for Justices' Orders.

I should like to take the opportunity of acknowledging the ready help given at all times by the Regional Hospital Boards' Bed Bureau, which has again on various occasions found prompt places for cases whose admission was an imperative urgency.

Section X.-Domestic Help

Under Section 29 of the National Health Service Act, 1946, the County Council is empowered to provide a Domestic Help Service for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, mentally defective, aged, or a child not over compulsory school age.

The service is one of those which have been devolved to Divisional Health Committees for organisation, administration, and management within the approved estimates. It is not one of the services provided free under the Act, and the Local Health Authority has adopted an appropriate payment scale.

Number of Domestic Helps employed at 31st December, 1957:—

- (a) Whole-time 23
- (b) Part-time 500

Number of cases in which Domestic Helps were provided under the Council's Scheme during the year:—

		<i>Cases included in previous column in which help began prior to 1957</i>
Maternity (including expectant mothers)	354	11
Tuberculosis	25	13
Chronic sick (including aged and infirm)	1676	1001
Others	325	46
	<hr/>	<hr/>
Total	2380	1071
	<hr/>	<hr/>

Section XI.-Home Nursing

Under Section 25 of the National Health Service Act, the County Council has the duty to provide a full service for nursing sick persons at home free of charge to the patient.

Details of the nurses and nurse-midwives employed by the County Council are given earlier in this report, together with their districts.

Small nursing appliances are kept by nurses for loan to their patients; large items such as special beds, wheel chairs, spinal carriages are available at the Divisional Offices. This service forms part of the County Council's arrangements under Section 28 of the Act.

The following statistics give some idea of the scope of the service and the work done:—

(a) Number of Home Nurses at 31/12/57:—	
(1) Whole-time on General Nursing	49
(2) Part-time on General Nursing	136
(b) Equivalent whole-time home nursing service provided in (a) (2)	75
(c) Number of visits paid by Home Nurses, 1957	414,981
(d) Number of cases attended by Home Nurses, 1957	22,595
(e) Number of houses owned by County Council	24
(f) Number of motor vehicles owned by County Council	63
(g) Number of County-owned motor-assisted pedal cycles	1
(h) Number of nurses receiving County allowance for their own cars	92
(i) Number of telephone rentals being paid	154

Section XII.-Handicapped Persons

General

Under Section 29 of the National Assistance Act, 1948, the County Council provides Welfare Services for handicapped persons, and the scheme under this heading has been made the responsibility of the County Health Committee.

The classes of handicapped persons to which the section applies are the blind, the partially sighted, the deaf and dumb, and others substantially and permanently handicapped by illness, injury, congenital deformity, or such other disability as may be prescribed.

Blind Persons

The Council's approved scheme so made continues, with necessary amplification, the scheme carried out in previous years in accordance with the Blind Persons Acts. Its details are executed by the Blind Welfare Societies at Chester, Ashton-under-Lyne, and Macclesfield, with which appropriate financial arrangements have been made. The Welfare Services of these Societies have been extended, so far as they are applicable, to partially sighted persons.

Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants were examined by one of the County Ophthalmologists. Those who so wished were examined a second time under the Medical Referee Service—conducted jointly with the North Regional Association—by independent Medical Referees.

Statistics

Number of Registered Blind Persons in the County at 31st December

	1957
Under 5 years	4
5—16 years	25
16—21 years	13
21—40 years	75
40—50 years	88
50—65 years	270
65—70 years	142
70 years and over	787
Unknown age	—
Total	1404

Registered Blind Persons in County, aged over 16 years, employed, or otherwise, at 31st December, 1957—

Employed	{ in Workshops & Workrooms	18
	{ as Home workers	17
	{ variously	80
Unemployed	.....	1252
Undergoing Training	.....	5
At School	.....	3

Incidence of Blindness

During the year 1957 there were 303 forms B.D.8 received for the County. These were classified as follows:—

Registered as Blind.....	166
Registered as Partially Sighted	112
Not registered	25

Follow up:

i) Number of cases registered during 1957 in respect of which para. 7 (c) of Forms B.D.8 recommended:—	Cause of Disability			
	Cataract	Glaucoma	Retrolental Fibroplasia	Others
(a) No treatment	39	12	—	83
(b) Treatment (medical surgical or optical)	54	21	—	69
(ii) Number of cases at (i) (b) above which on follow-up action have received treatment	20	13	—	34

Ophthalmia Neonatorum

- (i) Total number of cases notified during the year 2
- (ii) Number of cases in which:—
 - (a) Vision lost Nil
 - (b) Vision impaired Nil
 - (c) Treatment continuing at end of year Nil

Workshop Employees

Annual grants were continued on the usual principles to recognised Workshops for Cheshire employees. A “minimum wage” principle has been adopted for certain workers, their income being made up to a nationally agreed fixed amount. On this principle there were 5 male and 3 female employees at Chester, 3 male employees at Macclesfield, 1 male employee at Oldham, 1 male employee at Stoke-on-Trent, 2 males and 1 female at Henshaws, 1 male employee at Warrington, 1 male employee at Stockport and 2 male employees at Liverpool at the end of 1957.

Home Workers

The three voluntary societies arranged for the employment at home of those capable of it. Augmentation in accordance with the National Scheme was given by the Council to all County approved Workers, who numbered 14 at the end of 1957.

Open Industry

During 1957, grants on the Home Workers scale were made to two blind persons employed in open industry.

Rehabilitation

Two females were maintained for varying periods during 1957 at the National Institutes Rehabilitation Centre, Oldbury Grange, Bridgnorth.

National Library for the Blind

Grant and augmentation were made in 1957 to the National Library for the Blind on behalf of 2 Cheshire Home Workers who are Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

Other Services

The usual annual grants were continued in 1957 to the National Institute for the Blind and the North Regional Association for their respective national and regional services. An additional grant was paid to the National Institute in respect of its services in placing blind persons in open industry. Five persons were newly placed during 1957, two persons changed employment and a total of 560 visits was made by the Institute's Officers in connexion with this service.

Grants are made when necessary towards training blind persons to work with guide dogs.

Wireless Certificates

173 Certificates entitling the recipients to a free wireless licence were issued in 1957 to applicants on the register.

Deaf Persons

The County is fully covered by voluntary societies for the welfare of the deaf, and financial grants are made by the County Council to these societies, which act as authorised agents for the provision of advice and help, when desired, for the establishment of social centres, and for outings and other recreational activities. A grant is also paid to the North Regional Association for the Deaf in respect of its statistical, co-ordinating, and educational work. The numbers of Cheshire deaf persons on the registers of the Societies are approximately as follows:—

Chester	.....	.....	.....	.....	154
Manchester	.....	.....	.....	.....	168
Liverpool	.....	.....	.....	.....	44
St. Vincent's	.....	.....	.....	.....	4
Warrington	.....	.....	.....	.....	25
					<hr/>
Total					395
					<hr/>

Other Handicapped Persons

General

The registers of handicapped persons other than the blind, deaf, and dumb are kept by Divisional Medical Officers. They are limited to persons who wish to receive benefits under the approved scheme. General advice is given on overcoming their handicaps, and on how to obtain such help as is available, either under this scheme or under the hospital, local authority, or other aspects of the National Health Service. One example of help under this scheme is adaptation of premises, inside or outside, to facilitate use of an invalid chair or carriage. During 1957 the County Health Committee approved grants towards the cost of adaptations at the homes of sixteen handicapped persons to help them overcome their difficulties. Assistance in handicrafts is given when possible, with the co-operation of voluntary bodies. The most prominent example of the Council's help to handicapped persons is, of course, Wrenbury Hall Colony (see Section V).

Statistics

The numbers of persons on the above registers were as follows at 31/12/57:—

M of L class.	Definition	Children under 16		No. on Register Aged 16 — 64		Aged 65 & over		Total
		M.	F.	M.	F.	M.	F.	
A/E	Amputation	3	—	13	11	5	9	41
F	Arthritis and Rheumatism	—	4	17	47	18	85	171
G	Congenital malformations and deformities	27	22	28	55	—	3	135
H/L	Diseases of the digestive and genito-urinary systems; of the heart or circulatory system; of the respiratory system (other than tuber- culosis) and of the skin	42	35	64	90	25	74	330
Q/T	Injuries of the head, face, neck, thorax, abdomen, pel- vis or trunk. Injuries or diseases (other than tuber- culosis) of the upper and lower limbs and of the spine	12	10	33	30	3	10	98
V	Organic nervous diseases— epilepsy, disseminated scler- osis, poliomyelitis, hemi- plegia, sciatica, etc.	56	44	72	125	4	17	318
U/W	Neuroses, psychoses and other nervous and mental disorders not included in V	3	1	10	47	—	7	68
X	Tuberculosis (respiratory)	16	19	402	321	34	3	795
Y	Tuberculosis (non-respir- atory)	19	16	51	53	2	3	144
Z	Diseases and injuries not specified above	18	13	19	34	7	14	105
Totals		196	164	709	813	98	225	2205

Epileptics and Spastics

The number of persons on the Registers are not necessarily the total number of persons so handicapped. In regard to the above two important classes, the following are estimated totals:—

(a) Epileptics		
(i)	Children under 16	140
(ii)	Adults	84
(b) Spastics		
(i)	Children under 16	220
(ii)	Adults	33

Care is taken to ensure that, so far as possible, epileptic and spastic persons receive necessary treatment, education and accommodation and co-ordination is effected when necessary with the residential welfare and the hospital services.

Meals on Wheels

The following information has been supplied by W.V.S. County Office, indicating the scope of the work done in providing meals in the home for old people.

<i>Centre</i>	<i>No. of Recipients*</i>	<i>Meals Served per month*</i>
1 Alderley Edge	20	133
2 Altrincham	56	263
3 Bebington	37	393
4 Bredbury & Romiley	21	232
5 Crewe	24	387
6 Hale	23	111
7 Hazel Grove	17	270
8 Hoylake	31	249
9 Hyde	98	500
10 Marple	19	132
11 Nantwich R.D.	10	40
12 Nantwich U.D.	20	87
13 Northwich	26	153
14 Poynton	14	105
15 Sale	38	305
16 Winsford	12	92
17 * Whitegate	9	72
Totals	475	3,524

Hoylake and Altrincham have also luncheon clubs which serve lunches and teas to old people who are fit and wish to avail themselves of this Service.

* The actual month was June, 1958.

Section XIII. Water Supplies Sewerage and Sewage Disposal

Regrouping of Water Undertakings

During the year discussions continued among the various water undertakers in the County with a view to voluntary amalgamations and transfers, as a result of Circular 52/56 issued by the Minister of Housing and Local Government in September, 1956. This Circular urged all water undertakings in the country to accelerate the process of re-grouping so as to secure the most effective use of the water resources of the country and to provide a reliable service with economy in cost.

On 1st April, 1957, the Longdendale U.D.C.'s water undertaking was transferred to Manchester Corporation as a result of agreement reached between the two authorities after an approach had been made to Manchester by the Longdendale Council. It is known that negotiations for several other transfers and amalgamations were reaching an advanced stage at the end of 1957.

Scheme of Financial Assistance

Water Supply, Sewerage and Sewage disposal schemes of authorities in the administrative county can be assisted financially in two ways. Under the Rural Water Supplies and Sewerage Acts, 1944 and 1951, approved schemes for rural localities may qualify for a contribution both from the Exchequer and from the County Council, while schemes for other areas may qualify for a grant under the County Council's scheme of Financial Assistance which operates under provisions of the Public Health Act, 1936.

In the last financial year for which figures are at present available, *i.e.* the year ended 31st March, 1957, a total sum of approximately £34,500 was contributed by the County Council towards schemes of District Councils which qualified in one of these ways.

During the year under review, schemes of water supply estimated to cost £460,412 and schemes of sewerage and sewage disposal estimated to cost £763,081 were considered by the Department, and the following gives brief outlines of these schemes and the action taken thereon.

Water Supplies

Congleton Borough Council— Water main extension in Holmes Chapel Road, Congleton.

This scheme, estimated to cost £2,150, was to provide an improved supply of water to the West Heath Hospital and also to provide an adequate supply of water for housing development in the area. The scheme was recommended for approval.

Marple Urban District Council—Water Supply Improvement Scheme for Mellor.

This scheme provided for the scraping of all existing 3" mains, the replacement of 1" pipes by 3" mains and several minor works of improvement. The scheme was estimated to cost £6,277 and was recommended for approval.

Tarvin Rural District Council—Water Supply Improvement Scheme for Malpas.

This scheme was estimated to cost £4,007. It provided for a new tapping on the Vyrnwy Aqueduct and the laying of new mains to improve the supply in the village area and also to give improved supplies to the southern area of the Rural District. The scheme was recommended for approval.

Water Supply Extension Scheme at Tilston, at an estimated cost of £1,398. This provided for the laying of 794 yards of water mains to serve thirteen properties. The scheme was recommended for approval.

Water Supply Scheme for the Parishes of Bruen Stapleford, Burton, Foulk Stapleford and Huxley, at an estimated cost of £22,660. This scheme provided for the laying of a total of 10,815 yards of water main, to give a complete circuit of mains serving these areas and linking up with the existing mains network at Bruen Stapleford, and will provide a piped water supply to 42 houses, 32 farms and smallholdings and 3 other properties. The scheme was recommended for approval.

Hyde Borough Council—A scheme for the complete re-organisation of the water supply system of the Borough, at an estimated cost of £423,920. For some years the need for an all-round revision of the water supply system had been felt, and the need to provide for a large overspill population from Manchester at the Hattersley overspill site had made this revision more urgent. The scheme provides for the replacement of three existing points of supply by a single intake from the Manchester Corporation Waterwork's Longdendale Aqueduct; the provision of complete treatment works; the abandonment of one reservoir, improvements to others, and the provision of two new reservoirs and a high level tank; the provision of a new main pumping station and a small subsidiary pumping station; the provision of approximately $8\frac{1}{4}$ miles of trunk mains, both gravity and rising; and the provision of about $1\frac{1}{2}$ miles of new distribution mains. A grant of approximately £133,296 was anticipated towards the cost of the scheme from

the Exchequer under the Town Development Act in respect of the Overspill Scheme. The scheme was recommended for approval.

Sewerage and Sewage Disposal

Northwich Rural District Council—Sewerage and Sewage Disposal Scheme for the Parish of Acton.

The scheme as submitted was estimated to cost £14,565 and was, in effect, the first phase of a comprehensive scheme for the village.

It provided for the laying of sewers to serve the area south of Acton Bridge Station, with sewage disposal works to be constructed large enough to serve the whole village. The scheme as submitted would have provided drainage facilities for 25 properties out of a total of approximately 132 in the whole village.

It was suggested to the Northwich R.D.C. that if only 25 properties were to be drained to start with, the disposal works should also be limited in capacity in the first instance to deal with this development only. The R.D.C. were unwilling to do this as, of course, the ultimate cost of the works would be increased. They were therefore informed that if the scheme for the whole village was submitted, it would be given favourable consideration with a view to approval for grant purposes. The R.D.C. have since submitted the whole scheme and approval has been given.

Sewerage and Sewage Disposal scheme for the parish of Comberbach, at an estimated cost of £28,418. This scheme provided for the laying of new sewers to serve areas at present unsewered, replacement of some existing defective sewers in the Marbury Road area, and the construction of new Disposal Works. In Comberbach 180 existing properties would be served, with the elimination of 45 pail closets, while 16 properties in the adjacent parish of Antrobus in the Runcorn Rural District could also be connected to the sewers. This scheme was recommended for approval.

Sewerage and Sewage Disposal Scheme for the Parish of Lach Dennis, at an estimated cost of £5,310.

This scheme was to provide sewers to serve the village and to extend the existing Council House sewage installation to enable it to deal with the increased flow. Facilities would be provided for 30 existing properties, as well as future development, and contributions amounting to £350 had been offered by owners of private properties who would be served by the scheme.

It was felt that the existing Council House installation was badly sited in relation to the village scheme, the outfall for effluent was unsatisfactory, and that the amenities would be improved if the works were moved to a site on the west of the village. It was accordingly recommended that the scheme should be referred back to the R.D.C. for further consideration.

Sewerage and Sewage Disposal Scheme for Little Leigh, at an estimated cost of £5,161. The scheme provided for the laying of sewers in the village area, draining to an existing Council House sewage disposal works in Brakeley Lane, the extension of this installation to deal with the additional flow, and the provision of a separate installation for the treatment of sewage from six houses known as 'The New Houses' which cannot be economically drained into any existing works.

If this scheme had been carried out, there would have been a total of five sewage disposal works in the parish of Little Leigh. Moreover, it appeared possible to gravitate the sewage from Little Leigh village to the Barnton sewerage system, pick up en route certain properties not dealt with by the scheme as submitted, and at the same time eliminate two sewage works. It was therefore recommended that the scheme should be referred back to the R.D.C. so that these possibilities could be investigated. This was done, and a scheme on the lines suggested has since been submitted to the County Council and will be dealt with in the report for 1958.

Runcorn Rural District Council—Sewerage and Sewage Disposal Scheme for the village of Kingsley, at an estimated cost of £55,050. This was a modified scheme prepared at the suggestion of the Ministry of Housing and Local Government to replace a combined scheme for Kingsley and Norley. The scheme serves approximately 217 houses (including 34 Council Houses), three schools, and 19 other properties. Approximately half the houses are served by pail closets, while pollution of ditches and watercourses occurs from septic tank and other discharges. The scheme was recommended for approval.

Congleton Rural District Council—Storm water relief sewer for the parish of Church Hulme at an estimated cost of £1,328. This was to replace a defective storm water overflow sewer running from Knutsford Road, Holmes Chapel, to the River Dane, by a new 12" sewer, to remedy flooding of the land in times of storm. The scheme was recommended for approval.

Bebington Borough Council—Storm Water Relief Scheme for the Croft Avenue/Croft Lane area of Bromborough at an estimated cost of £2,900. The scheme provided for the laying of a new 18" surface water sewer through land on the south side of Croft Avenue connecting to an existing 18" sewer which discharges into the Dibbinsdale Brook. The scheme was recommended for approval.

Bredbury and Romiley Urban District Council—Sewerage and sewage disposal scheme for the village of Compstall at an estimated cost of £15,350.

This scheme provided for the construction of a sewerage system for the village, draining to a pumping station, from which the sewage will

be pumped to the head of the Romiley Sewerage System which drains to the main disposal works of the Urban District Council at Bredbury. The scheme was recommended for approval.

Hale Urban District Council—Sewerage Scheme for the High Elm Road area of Hale at an estimated cost of £1,550.

This provided for the laying of an estate sewer at a greater depth than would otherwise be necessary, so that the sewer could take sewerage from 19 other houses at present drained to septic tanks, in addition to the housing development for which it was originally intended by the developer. A contribution of £750 was to be made by the estate developer towards the cost of the scheme. The scheme was recommended for approval.

Northwich Rural District Council—Sewerage scheme for part of the parish of Delamere at an estimated cost (in 1954) of £5,150.

This scheme, submitted in outline only, was to provide sewerage facilities for 47 existing properties in the Chester Road area at the western end of Delamere. The sewers will drain into the sewerage system to be provided by the Tarvin R.D.C. in the adjacent Kelsall area, and it will not be possible to proceed with the scheme until the main Kelsall scheme has been carried out.

The scheme was recommended for approval in principle, subject to the submission of a detailed scheme together with an up-to-date estimate of cost, at a later date.

Hale Urban District Council—Sewage Disposal Scheme, at an estimated cost of £95,450.

This was an outline scheme for the extension of the present disposal works which are of the activated sludge type and were reconstructed in 1926 with a capacity for a population of 9,000. At present the flow from a population of 12,220 drains to the works, which are seriously overloaded, and considerable flows pass to the river after receiving settlement only. The proposed extensions are designed to provide a modern works, operating on activated sludge principles, and with a capacity for an ultimate population of 15,000. The scheme was recommended for approval in principle, subject to full details being submitted when these are available.

Hyde Borough Council—In addition to the major water supply scheme dealt with in the previous section, the Hyde Council submitted the following sewerage and sewage disposal schemes, the need for which had again been precipitated by the Manchester Overspill proposals. Together these schemes comprise the major reconstruction and reorganisation of the sewerage, sewage disposal and water supply services of the Borough.

- (i) A main sewer diversion scheme at an estimated cost of £37,397 necessitated by the collapse of a section of an existing main sewer. (This was actually a part of the main sewerage scheme which had to be proceeded with immediately as an emergency measure).
- (ii) A main sewer reconstruction scheme at an estimated cost of £259,279, the present system being some 80 years old and of insufficient capacity to deal satisfactorily with the present and future population, part of which will result from overspill development.
- (iii) A scheme for the reconstruction of the existing sewage disposal works at an estimated cost of £236,173. The present works were constructed about 50 years ago, and now require major works of improvement and extension to be capable of satisfactorily treating the flow from the present and estimated future population draining thereto.

The Borough Council anticipate grants from the Exchequer under the Town Development Act, amounting to 50% of the cost of sewerage, and estimated at £84,500 on the sewage disposal scheme, while Manchester Corporation are expected to contribute approximately £16,000 towards the cost of sewerage in respect of the Hattersley Overspill site.

These schemes were recommended for approval.

Ministry of Housing and Local Government Inquiries and Investigations

During the year Inspectors of the Ministry held Inquiries or Investigations into the following schemes and on each occasion the Department was represented by the County Health Inspector:—

July 9th	Wilmslow U.D.C.	Wilmslow North Sewerage Scheme.
July 10th	Runcorn R.D.C.	Frodsham Sewerage Scheme.
Oct. 1st	Tarvin R.D.C.	Malpas Water Scheme.
Oct. 9th and 10th	Hyde M.B.C.	Main Sewerage and Sewage Disposal Schemes.
Nov. 29th	Congleton R.D.C.	Goostrey Sewerage and Sewage Disposal Scheme.

Appendix of Statistics

1957

TABLE A

Deaths by Causes.—Sex—
■ Each County District.

TABLE B

Deaths by Causes.—Sex; Age—
■ Urban Districts, Rural Districts,

TABLE C

Statistical Summary of enumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each County District.

TABLE A (Urban i).

CAUSES OF DEATH.		Alderley Edge U.D.		Alsager U.D.		Altrincham M.B.		Bebington M.B.		Bollington U.D.		Bowdon U.D.		Bredbury and Romiley U.D.		Cheadle and Gatley U.D.		Congleton M.B.		Crewe M.B.		Dukinfield M.B.		Ellesmere Port M.B.		Hale U.D.		Hazel Grove and Bramhall U.D.		Hoylake U.D.		Hyde M.B.		
ALL CAUSES — —		M. 24	F. 27	M. 34	F. 28	M. 228	F. 232	M. 272	F. 252	M. 23	F. 47	M. 28	F. 37	M. 121	F. 95	M. 209	F. 192	M. 86	F. 98	M. 323	F. 253	M. 121	F. 134	M. 169	F. 137	M. 85	F. 77	M. 129	F. 138	M. 192	F. 214	M. 215	F. 211	
1	Tuberculosis, Respiratory	—	—	2	—	2	—	5	—	1	—	—	—	1	—	—	—	1	1	5	—	—	1	1	1	1	—	—	3	—	4	2	7	—
2	Tuberculosis, Other	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
3	Syphilitic Disease	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—	—	1	1	2	—	—	—	—	—	1	—	—	1	2	—	
4	Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	
5	Whooping Cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—	
6	Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
7	Acute Poliomyelitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8	Measles	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9	Other Infective and Parasitic Diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	Malignant Neoplasm, Stomach	—	1	2	—	4	6	4	5	1	1	1	—	3	4	3	1	4	3	12	6	5	4	5	5	2	—	3	2	2	6	9	7	
11	Malignant Neoplasm, Lung, Bronchus	2	—	1	—	15	5	27	2	5	—	—	—	5	—	11	2	4	1	25	2	8	3	13	2	3	2	5	—	7	4	18	2	
12	Malignant Neoplasm, Breast	—	—	—	1	—	4	—	6	—	1	—	—	—	4	—	6	—	1	—	10	—	4	—	4	—	9	—	3	—	14	—	5	
13	Malignant Neoplasm, Uterus	—	—	—	—	—	3	—	3	—	2	—	—	—	—	—	7	—	1	—	6	—	3	—	2	—	—	—	2	—	2	—	2	
14	Other Malignant and Lymphatic Neoplasms	3	1	4	1	20	16	25	28	2	5	3	3	14	8	13	20	4	6	26	18	8	12	18	12	11	10	13	11	23	17	15	14	
15	Leukaemia, Aleukaemia	—	—	—	—	1	—	1	2	—	1	—	—	—	1	2	1	—	—	1	—	1	—	1	—	1	—	2	—	—	—	—	—	
16	Diabetes	—	—	—	—	—	—	1	3	—	—	—	—	2	—	—	2	1	—	1	1	—	1	—	1	—	—	1	1	1	1	2	—	
17	Vascular Lesions of Nervous System	2	8	4	7	35	56	22	48	3	8	—	8	25	21	30	40	9	28	42	54	14	30	17	21	15	12	11	26	20	40	30	46	
18	Coronary Disease, Angina	3	4	9	4	43	26	77	45	4	3	5	6	21	7	53	21	14	15	58	32	21	5	33	23	17	14	33	21	52	44	30	17	
19	Hypertension with Heart Disease	—	1	1	1	3	6	4	5	—	—	—	—	3	6	6	2	1	8	8	4	3	4	4	4	4	3	3	—	3	5	2	6	
20	Other Heart Disease	3	7	1	6	30	40	22	27	1	9	7	6	11	17	25	23	10	17	44	54	21	36	23	17	10	11	9	21	26	28	30	42	
21	Other Circulatory Disease	2	1	2	3	8	12	8	5	1	5	—	2	10	7	15	18	3	6	7	9	2	3	4	5	1	4	5	9	6	8	8	19	
22	Influenza	—	—	—	—	2	3	3	1	1	—	1	—	—	—	—	2	3	1	5	3	1	3	4	4	—	7	1	1	1	2	3	3	
23	Pneumonia	1	1	—	1	5	7	13	25	—	3	3	2	4	2	5	6	2	4	6	7	3	4	7	8	4	1	6	7	9	12	5	8	
24	Bronchitis	3	—	2	—	15	9	18	7	—	1	3	3	7	4	8	6	8	2	24	5	13	3	13	3	6	1	4	8	9	1	20	4	
25	Other Diseases of Respiratory System	—	—	—	—	2	1	2	1	—	—	—	—	—	—	5	2	2	—	4	2	3	—	2	1	—	—	4	—	1	1	—	—	
26	Ulcer of Stomach and Duodenum	—	—	—	—	5	—	3	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	
27	Gastritis, Enteritis and Diarrhoea	—	—	—	—	2	—	—	4	—	—	—	—	1	1	1	3	2	2	—	4	1	2	—	4	4	1	—	2	1	3	1	3	1
28	Nephritis and Nephrosis	—	—	1	—	2	3	3	3	—	1	—	—	—	1	—	1	1	—	1	2	1	—	1	—	1	—	1	1	—	1	2	—	1
29	Hyperplasia of Prostate	1	—	—	—	7	—	2	—	1	—	—	1	—	—	—	—	—	—	4	—	2	—	3	—	2	—	1	—	—	1	1	3	3
30	Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	2	—	3	—	2	—	1	—	3	—	2	—	3	—
31	Congenital Malformations	1	—	1	1	—	1	1	1	—	1	—	—	—	1	5	—	1	—	6	1	—	1	—	1	—	1	3	2	1	1	1	3	
32	Other Defined and Ill-defined Diseases	2	2	4	1	15	18	15	22	2	5	1	3	5	9	12	19	4	4	22	17	2	12	13	10	9	2	13	18	13	13	13	21	
33	Motor Vehicle Accidents	—	—	—	—	2	3	6	1	—	—	—	—	1	1	5	—	2	—	6	2	2	—	1	—	—	1	2	—	2	1	1	—	
34	All Other Accidents	1	—	—	1	5	9	2	4	—	—	2	3	3	3	1	2	2	3	2	4	4	4	2	5	1	3	1	4	4	3	3	2	
35	Suicide	—	1	—	1	5	4	5	2	1	1	—	—	2	1	2	3	2	2	6	5	1	—	—	2	—	1	—	1	2	4	5	4	
36	Homicide & Operations of War	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LIVE BIRTHS—Total		16	25	63	61	283	309	391	375	52	42	28	27	150	137	293	285	130	120	421	364	124	117	413	391	70	77	191	172	208	193	210	246	
Legitimate		16	24	62	61	275	302	380	363	51	41	28	27	148	135	280	274	130	117	395	347	120	113	402	377	69	75	184	169	205	192	201	240	
Illegitimate		—	1	1	—	8	7	11	12	1	1	—	—	2	2	13	11	—	3	26	17	4	4	11	14	1	2	7	3	3	1	9	6	
STILLBIRTHS—Total		1	—	2	—	12	7	6	14	2	—	1	—	4	3	15	5	2	3	11	9	3	6	7	12	—	1	4	1	5	6	6	2	
Legitimate		1	—	2	—	11	7	5	14	2	—	1	—	4	3	15	5	2	3	11	8	3	6	7	11	—	1	4	1	5	6	6	2	
Illegitimate		—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—	
Deaths of Infants (under one year)		Total	—	—	2	2	3	5	1	9	—	1	—	1	1	4	6	4	3	—	15	6	1	3	10	3	3	—	4	3	5	4	2	6
		Legitimate	—	—	2	2	3	5	—	7	—	1	—	1	1	4	6	3	3	—	14	6	1	3	10	3	3	—	4	1	5	4	2	6
		Illegitimate	—	—	—	—	—	—	1	2	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	2	—	—	—	—	
Deaths of Infants (under 4 weeks of age)		Total	—	—	1	—	3	2	1	5	—	1	—	1	—	3	3	3	2	—	12	2	1	1	9	1	2	—	3	2	3	4	1	3
		Legitimate	—	—	1	—	3	2	—	3	—	1	—	1	—	3	3	2	2	—	11	2	1	1	9	1	2	—	3	2	3	4	1	3
		Illegitimate	—	—	—	—	—	—	1	2	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	2	—	—	—	—	

23	Pneumonia	1	1	1	5
24	Bronchitis	3	2	1	15
25	Other Diseases of Respiratory System	—	—	—	2
26	Ulcer of Stomach and Duodenum	—	—	—	5
27	Gastritis, Enteritis and Diarrhoea	—	—	—	2
28	Nephritis and Nephrosis	—	1	—	2
29	Hyperplasia of Prostate	1	—	—	7
30	Pregnancy, Childbirth, Abortion	—	—	—	—
31	Congenital Malformations	1	1	1	—
32	Other Defined and Ill- defined Diseases	2	2	4	15
33	Motor Vehicle Accidents	—	—	—	2
34	All Other Accidents—	1	—	—	5
35	Suicide	—	1	—	5
36	Homicide & Operations of War	—	—	—	—
LIVE BIRTHS—Total		16	25	63	283
Legitimate		16	24	62	275
Illegitimate		—	1	1	8
STILLBIRTHS—Total		1	—	2	12
Legitimate		1	—	2	11
Illegitimate		—	—	—	1
Deaths of Infants (under one year)		Total	2	2	3
Legitimate		2	—	—	3
Illegitimate		—	—	—	—
Deaths of Infants (under 4 weeks of age)		Total	1	1	3
Legitimate		1	—	—	3
Illegitimate		—	—	—	—

TABLE A—(Urban ii).

CAUSES OF DEATH.		Knutsford U.D.		Longden- dale U.D.		Lymm U.D.		Maccles- field M.B.		Marple U.D.		Middle- wich U.D.		Nantwich U.D.		Neston U.D.		Northwich U.D.		Runcorn U.D.		Sale M.B.		Sandbach U.D.		Staly- bridge M.B.		Wilmslow U.D.		Winsford U.D.		Wirral U.D.		
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.			
ALL CAUSES — —		59	116	27	39	36	39	254	294	93	86	36	38	59	44	55	74	117	102	134	102	284	248	52	38	141	160	103	89	71	70	117	121	
1	Tuberculosis, Respiratory	1	1	—	—	—	—	3	3	—	—	—	—	1	—	—	—	1	—	—	—	2	1	—	—	2	—	—	—	1	—	4	—	
2	Tuberculosis, Other	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
3	Syphilitic Disease	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—		
4	Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	2	1	—	—	—	—	—	—	—	—	2	—	
5	Whooping Cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
6	Meningococcal Infections	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
7	Acute Poliomyelitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
8	Measles	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1		
9	Other Infective and Parasitic Disease	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—		
10	Malignant Neoplasm, Stomach	5	1	4	1	2	4	11	10	3	1	1	1	2	2	—	5	4	3	2	2	11	6	4	1	3	1	2	2	4	1	—		
11	Malignant Neoplasm, Lung Bronchus	2	1	2	1	1	—	14	—	5	1	1	—	3	1	3	—	6	—	13	2	29	2	1	—	7	2	8	—	2	—	9	5	
12	Malignant Neoplasm, Breast	—	2	—	—	—	1	—	9	—	2	—	2	—	—	2	—	—	3	—	2	—	8	—	1	—	3	—	4	—	1	—		
13	Malignant Neoplasm, Uterus	—	1	—	1	—	1	—	5	—	2	—	—	—	—	1	—	—	1	—	1	—	2	—	2	—	2	—	—	—	2	—		
14	Other Malignant and Lymphatic Neoplasms	2	4	—	3	4	3	17	25	10	5	4	2	6	3	3	7	15	12	11	10	30	20	2	—	17	11	6	6	4	2	12	14	
15	Leukaemia, Aleukaemia	—	—	—	—	—	2	2	—	—	—	1	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—		
16	Diabetes	—	2	—	1	—	—	1	2	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	2	2	—	—	—	—	—	—		
17	Vascular Lesions of Nervous System	14	47	2	8	7	10	27	48	18	23	7	8	15	15	4	11	12	16	16	19	33	47	3	7	15	30	18	15	13	18	17	21	
18	Coronary Disease, Angina	9	11	2	3	12	3	47	34	15	13	8	8	9	6	17	13	13	13	29	8	44	34	11	2	14	14	20	14	12	5	28	16	
19	Hypertension with Heart Disease	1	—	—	—	—	1	11	8	3	2	1	1	1	2	—	2	1	3	2	2	6	3	—	—	4	6	2	2	1	1	1	9	
20	Other Heart Disease	14	23	4	6	1	10	36	67	12	12	6	7	10	9	8	11	23	15	23	19	34	48	6	3	15	32	8	24	10	16	13	20	
21	Other Circulatory Disease	—	2	3	5	—	—	8	8	2	2	2	—	1	—	1	7	8	11	5	5	12	21	2	1	8	14	5	6	3	4	7	5	
22	Influenza	2	4	1	2	1	—	2	3	1	2	—	1	1	1	2	2	—	1	1	1	1	1	1	—	2	2	—	2	1	—	—	—	
23	Pneumonia	2	2	—	—	2	1	12	15	3	3	—	2	—	1	5	2	1	3	4	6	12	7	—	6	6	2	1	2	3	2	8	1	
24	Bronchitis	—	1	2	1	1	—	15	3	7	1	—	1	2	1	4	—	15	1	14	2	21	9	6	1	20	8	7	2	2	2	5	1	
25	Other Diseases of Respiratory System	—	1	—	—	—	1	5	2	—	1	—	1	—	—	—	—	1	1	—	—	1	3	—	—	1	2	2	1	3	1	1	1	
26	Ulcer of Stomach and Duodenum	—	—	1	—	—	—	4	2	—	4	—	—	—	—	—	—	—	—	—	—	1	—	—	—	1	2	2	1	3	1	1	1	
27	Gastritis, Enteritis and Diarrhoea	—	—	—	—	—	—	—	2	1	—	—	—	—	—	—	—	—	1	—	1	5	—	—	—	3	—	—	—	—	—	1	1	
28	Nephritis and Nephrosis	—	—	—	—	—	1	5	—	—	—	—	1	—	—	—	—	—	—	1	1	1	—	—	2	—	3	—	—	1	—	—	—	
29	Hyperplasia of Prostate	2	—	—	—	1	—	3	—	—	—	—	—	—	—	3	—	1	1	1	1	1	2	1	2	—	1	1	—	1	—	—	1	
30	Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	2	—	4	—	—	—	2	—	1	—	—	—	—	—	—	
31	Congenital Malformations	—	1	—	—	1	1	5	5	1	—	—	2	—	1	—	—	1	2	2	—	—	1	—	1	—	—	—	—	—	—	—	—	
32	Other Defined and Ill-defined Diseases	3	8	3	3	1	2	18	25	4	11	1	3	1	2	4	3	8	11	5	15	19	15	10	15	9	15	15	10	4	8	6	9	
33	Motor Vehicle Accidents	2	—	2	1	1	—	3	—	—	—	1	—	—	—	—	1	1	2	1	1	6	1	2	1	1	4	—	1	—	1	—	—	
34	All Other Accidents	—	3	1	2	—	—	8	7	2	4	—	—	—	—	1	1	2	1	1	1	6	1	2	1	1	4	—	1	—	1	—	—	
35	Suicide	—	—	—	1	—	—	—	5	—	—	2	—	—	—	1	2	2	3	1	3	4	8	—	1	5	2	1	1	3	3	5	—	
36	Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	2	—	1	—	1	3	2	—	3	1	—	1	1	—	—	—	
LIVE BIRTHS—Total		64	68	32	22	73	76	280	253	87	92	51	70	76	64	87	84	124	110	250	209	424	411	65	57	165	197	184	155	102	129	180	126	
Legitimate		64	64	31	21	72	70	268	242	87	89	51	70	75	61	82	83	116	104	244	203	411	402	62	55	159	192	174	153	101	123	175	123	
Illegitimate		—	4	1	1	1	6	12	11	—	3	—	—	1	3	5	1	8	6	6	6	13	9	3	2	6	5	10	2	1	6	5	3	
STILLBIRTHS—Total		2	—	—	2	1	2	7	4	2	3	2	2	3	—	1	2	3	1	8	3	10	9	1	3	4	8	—	3	1	3	6	4	
Legitimate		2	—	—	2	1	2	6	4	2	3	1	2	3	—	1	2	3	1	7	3	10	9	1	3	4	8	—	3	1	3	6	4	
Illegitimate		—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Deaths of Infants (under one year)		Total	1	2	2	1	3	1	9	6	1	—	1	2	2	1	3	1	4	—	5	5	8	7	2	1	2	—	6	—	2	1	2	1
		Legitimate	1	2	1	1	3	1	9	6	1	—	1	2	2	1	3	1	4	—	5	5	8	7	2	1	2	—	6	—	2	1	2	1
		Illegitimate	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Deaths of Infants (Under 4 weeks of age)		Total	1	1	2	1	3	—	3	3	—	—	2	1	—	2	—	3	—	4	2	6	6	2	1	1	—	5	—	1	1	2	1	
		Legitimate	1	1	1	1	3	—	3	3	—	—	—	2	1	—	2	—	3	—	4	2	6	6	2	1	1	—	5	—	1	1	2	1
		Illegitimate	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

	Total	Legitimate	Illegitimate
Deaths of Infants (Under 4 weeks of age)	—	1	1
Deaths of Infants (under one year)	—	1	1
Stillbirths—Total	—	2	—
Live Births—Total	64	64	—
Other Diseases of Respiratory System	—	—	1
Ulcer of Stomach and Duodenum	—	—	1
Gastritis, Enteritis and Diarrhoea	—	—	—
Nephritis and Nephrosis	—	—	—
Hyperplasia of Prostate	2	—	—
Pregnancy, Childbirth, Abortion	—	—	—
Congenital Malformations	—	1	—
Other Defined and Ill- defined Diseases	3	8	3
Motor Vehicle Accidents	2	—	2
All Other Accidents	—	3	1
Suicide	—	—	1
Homicide & Operations of War	—	—	—
25 Other Diseases of Respiratory System	—	1	—
26 Ulcer of Stomach and Duodenum	—	—	1
27 Gastritis, Enteritis and Diarrhoea	—	—	—
28 Nephritis and Nephrosis	—	—	—
29 Hyperplasia of Prostate	2	—	—
30 Pregnancy, Childbirth, Abortion	—	—	—
31 Congenital Malformations	—	1	—
32 Other Defined and Ill- defined Diseases	3	8	3
33 Motor Vehicle Accidents	2	—	2
34 All Other Accidents	—	3	1
35 Suicide	—	—	1
36 Homicide & Operations of War	—	—	—

TABLE A—(Rural).

CAUSES OF DEATH.			Bucklow R.D.		Chester R.D.		Congleton R.D.		Disley R.D.		Macclesfield R.D.		Nantwich R.D.		Northwich R.D.		Runcorn R.D.		Tarvin R.D.		Tintwistle R.D.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES — —	78	56	170	220	158	155	22	20	124	136	167	130	229	202	224	222	93	95	13	8		
1 Tuberculosis, Respiratory —	2	—	2	—	1	—	—	—	2	2	1	—	—	—	2	1	1	—	—	—	—	
2 Tuberculosis, Other —	—	—	1	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	
3 Syphilitic Disease —	—	—	1	1	—	—	—	—	—	1	—	—	—	—	1	—	—	—	—	—	—	
4 Diphtheria —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5 Whooping Cough —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6 Meningococcal Infections —	1	—	1	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	
7 Acute Poliomyelitis —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8 Measles —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9 Other Infective and Parasitic Diseases —	—	—	—	2	—	—	—	—	1	—	—	2	2	1	—	1	2	—	—	—	—	
10 Malignant Neoplasm, Stomach —	4	3	5	5	2	4	—	—	7	5	6	5	5	6	11	5	6	1	1	—	—	
11 Malignant Neoplasm, Lung Bronchus —	4	1	10	1	2	1	1	—	3	—	9	1	14	3	11	2	1	—	—	—	—	
12 Malignant Neoplasm, Breast —	—	2	—	5	—	1	—	—	—	2	—	6	—	1	—	11	—	4	—	—	—	
13 Malignant Neoplasm, Uterus —	—	1	—	1	—	1	—	—	—	5	—	4	—	3	—	4	—	3	—	—	—	
14 Other Malignant and Lymphatic Neoplasms —	7	7	14	14	17	2	1	—	12	13	15	13	22	18	25	21	7	10	—	—	—	
15 Leukaemia, Aleukaemia —	—	—	1	1	—	—	—	—	1	—	—	—	1	—	1	—	1	—	—	—	—	
16 Diabetes —	—	1	1	—	—	2	—	1	—	—	—	2	1	—	1	—	—	1	1	—	—	
17 Vascular Lesions of Nervous System —	9	10	23	44	15	19	3	9	15	22	30	18	21	41	20	43	11	14	1	1	—	
18 Coronary Disease, Angina —	9	2	26	20	19	9	2	2	25	15	27	18	28	16	48	23	16	6	1	1	—	
19 Hypertension with Heart Disease —	1	1	3	4	1	2	1	—	2	1	3	5	9	4	6	9	1	2	1	—	—	
20 Other Heart Disease —	8	10	24	65	13	10	—	1	11	26	28	26	36	38	17	30	20	24	—	—	2	
21 Other Circulatory Disease —	6	3	6	6	5	5	3	1	8	8	9	3	13	15	12	12	2	5	1	—	—	
22 Influenza —	—	3	1	2	5	1	1	1	1	3	5	3	8	6	2	1	1	2	1	1	—	
23 Pneumonia —	3	1	10	14	1	—	2	—	6	4	3	3	11	11	15	9	3	5	—	—	—	
24 Bronchitis —	4	1	10	3	9	4	2	—	4	4	5	3	12	4	15	9	2	2	1	—	—	
25 Other Diseases of Respiratory System —	—	—	3	1	2	—	—	—	—	1	1	1	2	1	3	—	2	1	—	—	—	
26 Ulcer of Stomach and Duodenum —	2	—	—	—	3	2	1	—	2	—	—	—	1	—	3	2	1	1	1	—	—	
27 Gastritis, Enteritis and Diarrhoea —	—	—	3	1	—	1	—	—	1	1	—	2	1	1	1	3	1	—	—	—	—	
28 Nephritis and Nephroais —	—	1	3	2	1	2	—	—	1	—	—	6	4	6	3	—	1	—	—	—	—	
29 Hyperplasia of Prostate —	2	—	2	—	3	—	—	—	5	—	3	—	3	—	1	—	3	—	—	—	—	
30 Pregnancy, Childbirth, Abortion —	—	1	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
31 Congenital Malformations —	1	—	2	1	—	—	—	—	1	—	1	—	2	3	2	—	1	1	—	—	—	
32 Other Defined and Ill-defined Diseases —	7	8	12	20	50	83	4	4	11	16	14	12	16	15	8	22	6	10	4	—	—	
33 Motor Vehicle Accidents —	4	—	—	—	4	—	—	1	—	1	3	—	6	1	6	4	2	1	—	—	2	
34 All Other Accidents—	2	—	5	3	3	6	—	—	3	4	2	3	7	6	5	6	2	—	—	—	—	
35 Suicide —	2	—	1	2	1	—	1	—	2	1	2	—	1	3	1	1	1	1	—	—	1	
36 Homicide & Operations of War —	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	
LIVE BIRTHS—Total —	120	97	173	184	116	113	25	17	130	147	212	191	372	389	306	277	119	116	10	9	—	
Legitimate —	117	92	169	181	112	108	25	15	126	143	208	185	357	376	296	268	114	114	10	9	—	
Illegitimate —	3	5	4	3	4	5	—	2	4	4	4	6	15	13	10	9	5	2	—	—	—	
STILLBIRTHS—Total —	2	3	2	5	3	1	—	1	2	2	3	3	11	12	4	3	3	3	1	—	—	
Legitimate —	2	3	1	5	3	1	—	1	2	2	3	3	11	11	4	3	3	3	1	—	—	
Illegitimate —	—	—	1	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	
Deaths of Infants (under one year) { Total —	6	3	2	6	3	—	—	—	4	1	7	2	12	4	5	2	3	2	2	—	—	
{ Legitimate —	6	3	2	5	3	—	—	—	4	1	7	2	12	4	5	2	2	2	2	—	—	
{ Illegitimate —	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	
Deaths of Infants (under 4 weeks of age) { Total —	4	3	1	5	2	—	—	—	4	1	6	1	7	3	4	1	1	1	2	—	—	
{ Legitimate —	4	3	1	4	2	—	—	—	4	1	6	1	7	3	4	1	1	1	2	—	—	
{ Illegitimate —	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

[illegible]

TABLE B

CAUSES OF DEATH.		Sex.	AGGREGATE OF URBAN DISTRICTS.										AGGREGATE OF RURAL DISTRICTS.									
			All Ages	0—	1—	5—	15—	25—	45—	65—	75—	All Ages	0—	1—	5—	15—	25—	45—	65—	75—		
ALL CAUSES	—	—	M F	3897 3832	109 80	11 18	11 14	28 19	148 112	1187 669	1182 973	1221 1947	1278 1244	44 20	13 7	7 3	13 5	59 38	313 220	341 295	488 656	
1	Tuberculosis, Respiratory	—	M F	48 10	— —	— —	— —	— —	5 2	20 4	16 3	7 1	11 3	— —	— —	— —	— —	2 1	— —	5 2	— —	
2	Tuberculosis, Other	—	M F	4 —	1 —	1 —	— —	— —	1 —	3 —	1 —	— —	1 2	— —	— —	1 —	1 —	— —	— —	— —	1 —	
3	Syphilitic Disease	—	M F	13 3	— —	— —	— —	— —	— 1	6 —	5 1	2 1	2 2	— —	— —	— —	— —	— —	— —	2 1	— 1	
4	Diphtheria	—	M F	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
5	Whooping Cough	—	M F	1 2	— 2	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
6	Meningococcal Infections	—	M F	2 —	1 —	1 —	— —	— —	— —	— —	— —	— —	4 —	2 —	1 —	— —	1 —	— —	— —	— —	— —	
7	Acute Poliomyelitis	—	M F	— 3	— —	— —	— —	1 —	2 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
8	Measles	—	M F	1 —	— —	1 —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	— —	
9	Other Infective and Parasitic Diseases	—	M F	3 2	— —	— 1	— —	— 1	1 —	2 —	— —	— —	5 6	— —	1 —	— —	— 1	2 —	2 —	1 —	2 2	
10	Malignant Neoplasm, Stomach	—	M F	119 95	— —	— —	— —	— —	1 2	47 23	42 24	29 46	47 34	— —	— —	— —	— —	1 1	15 16	12 16	15 16	
11	Malignant Neoplasm, Lung Bronchus	—	M F	255 40	— —	— —	— —	— —	6 2	146 16	73 14	30 8	55 9	— —	— —	— —	— 2	29 2	21 3	3 2	3 2	
12	Malignant Neoplasm, Breast	—	M F	— 117	— —	— —	— —	— —	6 —	49 —	38 —	24 —	— 32	— —	— —	— —	— 4	8 —	13 —	7 —	— —	
13	Malignant Neoplasm, Uterus	—	M F	— 55	— —	— —	— —	— —	1 —	24 —	15 —	15 —	22 —	— —	— —	— —	— —	— 13	4 —	— —	— —	
14	Other Malignant and Lymphatic Neoplasms	—	M F	345 309	— —	— —	1 —	2 —	15 16	101 98	126 94	101 99	120 98	— —	— —	— —	2 8	5 3	38 39	31 22	41 32	
15	Leukaemia, Aleukaemia	—	M F	13 9	— —	— 2	— —	— —	2 2	4 —	4 1	3 —	5 1	— —	1 —	— —	— 2	2 1	— —	— —	— —	
16	Diabetes	—	M F	14 18	— —	— —	— —	— —	1 —	6 2	5 7	2 9	4 7	— —	— —	— —	— —	— 2	2 1	2 5	— 1	
17	Vascular Lesions of Nervous System	—	M F	500 796	— —	— —	— —	— —	2 10	115 107	160 216	223 463	148 221	— 1	— —	— —	— 1	27 39	43 56	77 124	— —	
18	Coronary Disease, Angina	—	M F	763 484	— —	— —	— —	3 —	19 1	303 74	279 184	171 222	201 112	— —	— —	— —	— —	4 16	81 44	67 52	49 52	
19	Hypertension with Heart Disease	—	M F	81 94	— —	— —	— —	1 —	18 —	22 14	8 28	32 52	28 28	— —	— —	— —	— —	— 13	12 5	3 19	— —	
20	Other Heart Disease	—	M F	496 683	— —	— —	— —	10 2	7 9	71 58	130 129	278 475	157 232	— —	— —	— —	— 2	15 4	39 21	101 38	159 —	
21	Other Circulatory Disease	—	M F	149 207	— —	— —	— —	2 —	— 4	26 23	50 48	71 132	65 58	— —	— —	— —	— 1	7 8	16 11	40 38	— —	
22	Influenza	—	M F	42 44	— —	2 1	1 2	2 2	4 4	16 10	13 8	4 17	25 23	2 —	1 —	2 —	— —	2 1	8 5	6 7	4 10	
23	Pneumonia	—	M F	126 158	12 13	3 5	1 —	1 1	2 3	28 23	26 31	53 82	54 47	5 4	— —	— —	— —	1 8	11 11	8 27	23 23	
24	Bronchitis	—	M F	274 91	— 1	— —	— —	— —	3 20	91 20	113 22	67 48	64 30	1 —	— —	1 —	— —	4 6	13 5	27 19	18 —	
25	Other Diseases of Respiratory System	—	M F	40 22	1 —	— 1	— —	— —	3 2	18 3	10 8	8 7	13 5	— —	1 2	— —	— —	3 1	— 4	5 2	— —	
26	Ulcer of Stomach and Duodenum	—	M F	51 18	— —	— —	— —	— —	— —	18 5	19 6	14 7	14 5	— —	— —	— —	— —	1 4	2 4	5 5	3 —	
27	Gastritis, Enteritis and Diarrhoea	—	M F	16 18	2 2	1 1	— —	— —	4 1	3 4	3 4	3 6	7 9	1 —	1 —	— 1	— 2	2 2	— —	— 1	3 —	
28	Nephritis and Nephrosis	—	M F	26 34	— —	— —	— 1	2 1	5 5	12 7	3 8	4 12	17 13	— —	— —	— —	1 1	2 6	3 1	3 8	5 —	
29	Hyperplasia of Prostate	—	M F	50 —	— —	— —	— —	— —	— —	7 —	19 —	24 —	22 —	— —	— —	— —	— —	— 1	6 —	15 —	— —	
30	Pregnancy, Childbirth, Abortion	—	M F	— 4	— —	— —	— —	— 1	— 3	— —	— —	— —	3 —	— —	— —	— —	— 2	— —	— 1	— —	— —	
31	Congenital Malformations	—	M F	41 26	33 14	2 —	2 —	— 1	3 —	1 5	1 —	1 —	10 5	8 2	1 2	— —	— —	— —	— 1	1 —	— —	
32	Other Defined and Ill-defined Diseases	—	M F	256 331	56 42	1 —	5 3	2 4	13 13	69 48	48 56	62 163	132 190	25 12	1 1	1 3	4 7	20 17	22 28	2 117	62 —	
33	Motor Vehicle Accidents	—	M F	54 19	— —	— 1	— 1	14 3	14 4	16 3	3 2	7 5	25 10	— —	1 1	2 1	7 3	3 2	3 3	2 —	— —	
34	All Other Accidents	—	M F	69 89	3 3	2 4	4 3	5 —	15 8	14 15	7 8	19 51	29 28	3 —	2 1	2 —	5 1	6 4	2 8	9 16	— —	
35	Suicide	—	M F	46 44	— —	— —	— —	— 1	11 7	21 26	7 9	6 2	12 9	— —	— —	— —	1 1	1 4	4 2	2 2	— —	
36	Homicide and Operations of War	—	M F	— 2	— 2	— —	— —	— —	— —	— —	— —	— —	1 —	1 —	— —	— —	— —	— —	— —	— —	— —	

Disease	Males	Females
Influenza	683	149
Pneumonia	126	158
Bronchitis	274	91
Other Diseases of Respiratory System	40	22
Ulcer of Stomach and Duodenum	51	18
Gastritis, Enteritis and Diarrhoea	16	18
Nephritis and Nephrosis	26	34
Hyperplasia of Prostate	50	—
Pregnancy, Childbirth, Abortion	—	4
Congenital Malformations	41	26
Other Defined and Ill-defined Diseases	256	331
Motor Vehicle Accidents	54	19
All Other Accidents	69	89
Suicide	46	44
Homicide and Operations of War	2	2

TABLE C

SANITARY DISTRICTS.	Population, at Census, 1951.*	Estimated Population in middle of 1957.	Area in Acres 1957	Illegitimate Births	Still Births.	Total Live Births.	Live Birth rate per 1000	Deaths	Death-rate per 1000	Deaths from				Deaths from Principal Zymotic Diseases	Principal Zymotic Diseases Death-rate	No. of Deaths under one year	Deaths under one year to 1000 Births	No. of Deaths under four weeks	Deaths under four weeks to 1000 Births	Medical Officers of Health and Divisional Officers at 31/12/57
										Measles	Diphtheria	Whooping Cough	Gastritis, Enteritis and Diarrhoea							
Column Number —	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MUNICIPAL BOROUGHS																				
Altrincham —	39789	40610	3477	15	19	592	14.6	460	11.3	—	—	—	2	2	.05	8	14	5	8	Dr. D. Longbottom
Bebington —	47844	50150	12234	23	20	766	15.3	524	10.5	—	—	—	4	4	.08	10	13	6	8	Dr. F. S. Melville
Congleton —	15502	15890	5587	3	5	250	15.7	184	11.6	—	—	—	1	1	.06	3	12	2	8	Dr. L. Rich
Crewe —	52423	51490	4386	43	20	785	15.2	576	11.2	—	—	—	3	4	.08	21	27	14	18	Dr. D. G. Crawshaw
Dukinfield —	18451	18110	1725	8	9	241	13.3	255	14.1	—	—	1	3	4	.08	21	27	14	18	Dr. T. Holme
Ellesmere Port —	32653	37580	9144	25	19	804	21.4	306	8.1	—	—	—	1	2	.06	6	17	2	8	Dr. W. J. Birchall
Hyde —	31494	31780	4170	15	8	456	14.3	426	13.4	—	—	1	1	1	.03	8	16	10	12	Dr. F. W. C. Brown
Macclesfield —	36052	36610	4787	23	11	533	14.6	548	15.0	—	—	—	2	2	.05	15	18	4	9	Dr. H. R. Dugdale
Sale —	43168	47100	3629	22	19	835	17.7	532	11.3	—	—	—	1	2	.04	15	18	6	11	Dr. E. H. Gordon
Stalybridge —	22541	22530	3190	11	12	362	16.1	301	13.4	—	—	—	2	2	.09	2	6	1	3	Dr. T. Holme
Total Municipal Boroughs	339917	351850	43185	188	142	5624	16.0	4112	11.7	—	—	2	19	21	.06	99	18	62	11	
OTHER URBAN DISTRICTS																				
Alderley Edge —	3689	3740	702	1	1	41	11.0	51	13.6	—	—	—	—	—	—	—	—	—	—	Dr. D. G. Anderson
Alsager —	5575	6600	2241	1	2	124	18.8	62	9.4	—	—	—	—	—	—	4	32	1	8	Dr. L. Rich
Bollington —	5313	5140	1442	2	2	94	17.4	70	12.9	—	—	—	—	—	—	11	11	1	11	Dr. H. R. Dugdale
Bredbury & Romiley —	3529	3960	1090	—	1	55	13.9	65	16.4	—	—	—	—	—	—	1	18	1	11	Dr. D. Longbottom
Cheadle & Gatley —	17667	18540	4290	24	7	287	15.5	216	11.7	—	—	—	1	1	.05	5	17	3	10	Dr. T. W. Brindle
Hale —	12152	12480	2264	3	20	578	16.5	401	11.4	—	—	—	3	3	.09	10	17	6	10	Dr. D. G. Anderson
Hazel Grove and Bramhall —	19674	23390	5990	10	5	363	15.5	267	11.4	—	—	—	1	1	.08	3	20	2	14	Dr. D. Longbottom
Hoylelake —	30936	32100	5996	4	11	401	12.5	406	12.6	—	—	—	3	1	.04	7	19	5	14	Dr. T. W. Brindle
Knutsford —	6617	7720	2485	4	2	132	17.1	175	22.7	—	—	—	3	3	.09	9	22	7	17	Dr. J. Hatton
Longendale —	4591	4410	3545	2	2	54	12.2	66	15.0	—	—	—	—	—	—	3	23	2	15	Dr. D. Longbottom
Lymm —	6412	6860	4241	7	3	149	21.7	75	10.9	—	—	—	—	—	—	4	27	3	56	Dr. F. W. C. Brown
Murple —	13073	14250	7130	3	5	179	12.6	179	12.6	—	—	—	1	1	.07	1	6	—	20	Dr. E. H. Gordon
Middlewich —	6736	6880	1971	—	4	121	17.6	74	10.8	—	—	—	—	—	—	3	25	2	17	Dr. T. W. Brindle
Nantwich —	8843	9340	1177	4	3	140	15.0	103	11.0	—	—	—	—	—	—	3	21	1	7	Dr. W. S. Slater
Neston —	9726	10790	8495	6	3	171	15.8	129	12.0	—	—	—	—	1	.09	4	23	2	12	Dr. R. K. Hay
Northwich —	20160	19540	2636	14	4	234	12.0	219	11.2	—	—	1	—	—	—	10	17	3	13	Dr. J. Hatton
Runcorn —	23931	25660	3127	12	11	459	17.9	236	9.2	—	—	—	1	2	.08	10	22	6	13	Dr. W. S. Slater
Sandbach —	9253	9780	3716	5	4	122	12.5	90	9.2	—	—	—	—	—	—	4	17	3	13	Dr. E. N. H. Gray
Wilmslow —	19536	21370	7691	12	3	339	15.9	192	9.0	—	—	—	—	3	.14	6	18	5	25	Dr. L. Rich
Winsford —	12738	12970	7094	7	4	231	17.8	141	10.9	—	—	—	3	3	.08	3	13	2	9	Dr. D. G. Anderson
Wirral —	17362	18630	5639	8	10	306	16.4	238	12.8	—	—	—	—	1	.08	3	10	3	10	Dr. W. S. Slater
Total Urban Districts	289024	309550	97405	133	108	4727	15.3	3617	11.7	1	—	1	15	17	.05	90	19	61	13	Dr. J. Hatton
RURAL DISTRICTS																				
Bucklow —	11185	12590	46103	8	5	217	17.2	134	10.6	—	—	—	—	—	—	9	41	7	32	Dr. D. Longbottom
Chester —	25540	27740	43829	7	7	357	12.9	390	14.1	—	—	—	—	—	—	14	8	22	6	Dr. W. J. Birchall
Congleton —	13261	13730	38704	9	4	229	16.7	313	22.8	—	—	—	4	4	.07	3	13	2	9	Dr. L. Rich
Disley —	2865	3040	2208	2	1	42	13.8	42	13.8	—	—	—	—	—	—	—	—	—	—	Dr. T. W. Brindle
Macclesfield —	19878	20470	72533	8	4	277	13.5	260	12.7	—	—	—	2	2	.10	5	18	—	18	Dr. L. Rich
Nantwich —	27633	28730	100844	10	6	403	14.0	297	10.3	—	—	—	2	2	.07	9	22	7	17	Dr. R. K. Hay
Northwich —	35038	40420	57014	28	23	761	18.8	431	10.7	—	—	—	2	2	.05	16	21	10	13	Dr. W. S. Slater
Runcorn —	35573	37470	43552	19	7	583	15.6	446	11.9	—	—	—	4	4	.11	7	12	5	9	Dr. E. N. H. Gray
Trarling —	14606	14710	62593	7	6	235	16.0	188	12.8	—	—	—	1	1	.07	5	21	2	9	Dr. W. J. Birchall
Tintwistle —	1364	1500	11855	—	1	19	12.7	21	14.0	—	—	—	—	—	—	2	105	2	105	Dr. F. W. C. Brown
Total Rural Districts	186943	200400	481235	98	64	3123	15.6	2522	12.6	—	—	—	16	16	.08	64	20	46	15	
Administrative County	815884	861800	621825	419	314	13474	15.6	10251	11.9	1	—	3	50	54	.06	253	19	169	13	

*These are the 1951 Census populations for the areas as Constituted 1/4/57

